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# **CONTACT INFORMATION**

BEN SMITH

WHELANDS GROUP INVESTMENTS

103 RUPERT ST

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AUS 3875

PHONE: 5152 2844

FAX:

Email: workshop@whelansgroup.com.au

Interp By: Barry Swindells

**EQUIPMENT** 

CUSTOMER EQUIP NUM: TK45

SERIAL NUMBER: TK45\_WHELANS

MODEL: FFR500

MANUFACTURER: ISUZU

COMPANY NAME: WHELANS GROUP INVESTMENTS PTY LTD

JOB SITE:

REGION:

SAMPLE INFORMATION

COMPARTMENT NAME : ENGINE TRUCK

COMP SERIAL NUM:

COMPARTMENT MODEL :

LABEL#:

SHOP JOB NUM:

SAMPLE TYPE: OIL

SAMPLE SHIP TIME (days): 8

SAMPLE LOCATION: WORK SHOP

Monitor

Compartment

LAB#

T010-49147-0419

.com.au AREA:

POSSIBLE FUEL DILUTION OCCURING, CONTINUE SAMPLING AT THE RECOMMENDED INTERVAL TO MONITOR.

|                |                 | WEAR/O          | CONTAMINATION -   | ADDITIVES/F     | ORMULATION       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |     |      |     |     |
|----------------|-----------------|-----------------|-------------------|-----------------|------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|-----|------|-----|-----|
| SAMPLE<br>DATE | SAMPLE ID       | METER<br>( KM ) | METER ON<br>FLUID | FLUID<br>CHANGE | FILTER<br>CHANGE | Cu | Fe | Cr | Al | Pb | Sn | Si | Na | К  | Мо | Ni | Ag | Ti | ٧  | Mn | Cd | Ca   | Р   | Zn   | Mg  | В   |
| 20-May-19      | T010-49147-0419 | 603978          | 10445             | Υ               | Υ                | <1 | 13 | 2  | 3  | <1 | <1 | 6  | 4  | <1 | 82 | <1 | <1 | <1 | <1 | <1 | <1 | 1227 | 828 | 1055 | 354 | 313 |
| 26-Feb-19      | T010-49064-0513 | 593533          | 10000             | Υ               | Υ                | <1 | 13 | 2  | 4  | 2  | 3  | 6  | 3  | <1 | 90 | <1 | <1 | <1 | <1 | <1 | <1 | 1315 | 901 | 1110 | 396 | 370 |
| 28-Jan-19      | T010-49032-0408 | 522000          | 10000             | Υ               | Υ                | <1 | 10 | <1 | 4  | <1 | 3  | 7  | 3  | <1 | 82 | <1 | <1 | <1 | <1 | <1 | <1 | 1318 | 918 | 1148 | 380 | 379 |
| 20-Nov-18      | T010-48327-0121 | 581096          | 15000             | Υ               | Υ                | <1 | 15 | 2  | 4  | 1  | 2  | 6  | 1  | 1  | 80 | <1 | <1 | <1 | <1 | <1 | <1 | 1236 | 891 | 1127 | 360 | 338 |

|           |                 |             | OIL FORMULATION | - OIL CONDITI | ON - OIL COI | NOITANIMATION |      |      |     |    |     |     |     |   |   |      |
|-----------|-----------------|-------------|-----------------|---------------|--------------|---------------|------|------|-----|----|-----|-----|-----|---|---|------|
| SAMPLE    | SAMPLE ID       | FLUID BRAND | FLUID TYPE      | FLUID         | FLUID        | FILTER        | V100 | V40  | VI  | ST | OXI | SUL | NIT | W | F | PFc  |
| DATE      |                 |             |                 | WEIGHT        | CHANGE       | CHANGE        |      |      |     |    |     |     |     |   |   |      |
| 20-May-19 | T010-49147-0419 | FUCHS       | CARGO           | 15W-40        | Y            | Y             | 11.5 | 80.1 | 135 | 26 | 16  | 22  | 8   | N | N | 5.63 |
| 26-Feb-19 | T010-49064-0513 | FUCHS       | CARGO           | 15W-40        | Y            | Y             | 12.0 | 83.2 | 138 | 26 | 16  | 22  | 7   | N | N | 5.13 |
| 28-Jan-19 | T010-49032-0408 | FUCHS       | CARGO           | 15W-40        | Y            | Y             | 13.7 | 97.7 | 141 | 31 | 13  | 20  | 5   | N | N |      |
| 20-Nov-18 | T010-48327-0121 | FUCHS       | CARGO           | 15W-40        | Υ            | Υ             | 12.3 | 87.3 | 136 | 27 | 17  | 22  | 8   | N | N | 3.85 |

|           |                 | OIL    | CLEANLINESS |     |
|-----------|-----------------|--------|-------------|-----|
| SAMPLE    | SAMPLE ID       | FLUID  | FILTER      | PQI |
| DATE      |                 | CHANGE | CHANGE      |     |
| 20-May-19 | T010-49147-0419 | Υ      | Y           | 7   |
| 26-Feb-19 | T010-49064-0513 | Y      | Y           | 3   |
| 28-Jan-19 | T010-49032-0408 | Υ      | Y           | 0   |
| 20-Nov-18 | T010-48327-0121 | Υ      | Υ           | 3   |

Ag = Silver, Al = Aluminum, B = Boron, Ca = Calcium, Cd = Cadmium, Cr = Chromium, Cr = Chrom, Cr = Chromium, Cr = Chromium, Cr = Chromium, Cr = Chromium, Cr

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BAIRNSDALE, VIC

AUS 3875

PHONE: 5152 2844

FAX:

Email: workshop@whelansgroup.com.au

Interp By: Barry Swindells

**EQUIPMENT** 

CUSTOMER EQUIP NUM: TK45

SERIAL NUMBER: TK45\_WHELANS

MODEL: FFR500

MANUFACTURER: ISUZU

COMPANY NAME: WHELANS GROUP INVESTMENTS PTY LTD

JOB SITE:

REGION:

SAMPLE INFORMATION

COMPARTMENT NAME : ENGINE TRUCK

COMP SERIAL NUM:

COMPARTMENT MODEL :

LABEL#:

SHOP JOB NUM:

SAMPLE TYPE: OIL

SAMPLE SHIP TIME (days): 8

SAMPLE LOCATION: WORK SHOP

Monitor

Compartment

LAB#

T010-49147-0419

.com.au AREA:

POSSIBLE FUEL DILUTION OCCURING, CONTINUE SAMPLING AT THE RECOMMENDED INTERVAL TO MONITOR.

|                |                 | WEAR/O          | CONTAMINATION -   | ADDITIVES/F     | ORMULATION       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |     |      |     |     |
|----------------|-----------------|-----------------|-------------------|-----------------|------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|-----|------|-----|-----|
| SAMPLE<br>DATE | SAMPLE ID       | METER<br>( KM ) | METER ON<br>FLUID | FLUID<br>CHANGE | FILTER<br>CHANGE | Cu | Fe | Cr | Al | Pb | Sn | Si | Na | К  | Мо | Ni | Ag | Ti | ٧  | Mn | Cd | Ca   | Р   | Zn   | Mg  | В   |
| 20-May-19      | T010-49147-0419 | 603978          | 10445             | Υ               | Υ                | <1 | 13 | 2  | 3  | <1 | <1 | 6  | 4  | <1 | 82 | <1 | <1 | <1 | <1 | <1 | <1 | 1227 | 828 | 1055 | 354 | 313 |
| 26-Feb-19      | T010-49064-0513 | 593533          | 10000             | Υ               | Υ                | <1 | 13 | 2  | 4  | 2  | 3  | 6  | 3  | <1 | 90 | <1 | <1 | <1 | <1 | <1 | <1 | 1315 | 901 | 1110 | 396 | 370 |
| 28-Jan-19      | T010-49032-0408 | 522000          | 10000             | Υ               | Υ                | <1 | 10 | <1 | 4  | <1 | 3  | 7  | 3  | <1 | 82 | <1 | <1 | <1 | <1 | <1 | <1 | 1318 | 918 | 1148 | 380 | 379 |
| 20-Nov-18      | T010-48327-0121 | 581096          | 15000             | Υ               | Υ                | <1 | 15 | 2  | 4  | 1  | 2  | 6  | 1  | 1  | 80 | <1 | <1 | <1 | <1 | <1 | <1 | 1236 | 891 | 1127 | 360 | 338 |

|           |                 |             | OIL FORMULATION | - OIL CONDITI | ON - OIL COI | NOITANIMATION |      |      |     |    |     |     |     |   |   |      |
|-----------|-----------------|-------------|-----------------|---------------|--------------|---------------|------|------|-----|----|-----|-----|-----|---|---|------|
| SAMPLE    | SAMPLE ID       | FLUID BRAND | FLUID TYPE      | FLUID         | FLUID        | FILTER        | V100 | V40  | VI  | ST | OXI | SUL | NIT | W | F | PFc  |
| DATE      |                 |             |                 | WEIGHT        | CHANGE       | CHANGE        |      |      |     |    |     |     |     |   |   |      |
| 20-May-19 | T010-49147-0419 | FUCHS       | CARGO           | 15W-40        | Y            | Y             | 11.5 | 80.1 | 135 | 26 | 16  | 22  | 8   | N | N | 5.63 |
| 26-Feb-19 | T010-49064-0513 | FUCHS       | CARGO           | 15W-40        | Y            | Y             | 12.0 | 83.2 | 138 | 26 | 16  | 22  | 7   | N | N | 5.13 |
| 28-Jan-19 | T010-49032-0408 | FUCHS       | CARGO           | 15W-40        | Y            | Y             | 13.7 | 97.7 | 141 | 31 | 13  | 20  | 5   | N | N |      |
| 20-Nov-18 | T010-48327-0121 | FUCHS       | CARGO           | 15W-40        | Υ            | Υ             | 12.3 | 87.3 | 136 | 27 | 17  | 22  | 8   | N | N | 3.85 |

|           |                 | OIL    | CLEANLINESS |     |
|-----------|-----------------|--------|-------------|-----|
| SAMPLE    | SAMPLE ID       | FLUID  | FILTER      | PQI |
| DATE      |                 | CHANGE | CHANGE      |     |
| 20-May-19 | T010-49147-0419 | Υ      | Y           | 7   |
| 26-Feb-19 | T010-49064-0513 | Y      | Y           | 3   |
| 28-Jan-19 | T010-49032-0408 | Υ      | Y           | 0   |
| 20-Nov-18 | T010-48327-0121 | Υ      | Υ           | 3   |

Ag = Silver, Al = Aluminum, B = Boron, Ca = Calcium, Cd = Cadmium, Cr = Chromium, Cr = Chrom, Cr = Chromium, Cr = Chromium, Cr = Chromium, Cr = Chromium, Cr

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AUS 3875

PHONE: 5152 2844

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Email: workshop@whelansgroup.com.au

Interp By: Barry Swindells

**EQUIPMENT** 

**CUSTOMER EQUIP NUM: TK45** 

SERIAL NUMBER: TK45\_WHELANS

MODEL: FFR500

MANUFACTURER: ISUZU

COMPANY NAME: WHELANS GROUP INVESTMENTS PTY LTD

JOB SITE:

REGION:

SAMPLE INFORMATION

COMPARTMENT NAME : ENGINE TRUCK

COMP SERIAL NUM:

COMPARTMENT MODEL :

LABEL#:

SHOP JOB NUM:

SAMPLE TYPE: OIL

SAMPLE SHIP TIME (days): 8

SAMPLE LOCATION: WORK SHOP

Monitor

Compartment

LAB#

T010-49147-0419

.com.au AREA:

POSSIBLE FUEL DILUTION OCCURING, CONTINUE SAMPLING AT THE RECOMMENDED INTERVAL TO MONITOR.

|                |                 | WEAR/O          | CONTAMINATION -   | ADDITIVES/F     | ORMULATION       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |     |      |     |     |
|----------------|-----------------|-----------------|-------------------|-----------------|------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|-----|------|-----|-----|
| SAMPLE<br>DATE | SAMPLE ID       | METER<br>( KM ) | METER ON<br>FLUID | FLUID<br>CHANGE | FILTER<br>CHANGE | Cu | Fe | Cr | Al | Pb | Sn | Si | Na | К  | Мо | Ni | Ag | Ti | ٧  | Mn | Cd | Ca   | Р   | Zn   | Mg  | В   |
| 20-May-19      | T010-49147-0419 | 603978          | 10445             | Υ               | Υ                | <1 | 13 | 2  | 3  | <1 | <1 | 6  | 4  | <1 | 82 | <1 | <1 | <1 | <1 | <1 | <1 | 1227 | 828 | 1055 | 354 | 313 |
| 26-Feb-19      | T010-49064-0513 | 593533          | 10000             | Υ               | Υ                | <1 | 13 | 2  | 4  | 2  | 3  | 6  | 3  | <1 | 90 | <1 | <1 | <1 | <1 | <1 | <1 | 1315 | 901 | 1110 | 396 | 370 |
| 28-Jan-19      | T010-49032-0408 | 522000          | 10000             | Υ               | Υ                | <1 | 10 | <1 | 4  | <1 | 3  | 7  | 3  | <1 | 82 | <1 | <1 | <1 | <1 | <1 | <1 | 1318 | 918 | 1148 | 380 | 379 |
| 20-Nov-18      | T010-48327-0121 | 581096          | 15000             | Υ               | Υ                | <1 | 15 | 2  | 4  | 1  | 2  | 6  | 1  | 1  | 80 | <1 | <1 | <1 | <1 | <1 | <1 | 1236 | 891 | 1127 | 360 | 338 |

|           |                 |             | OIL FORMULATION | - OIL CONDITI | ON - OIL COI | NOITANIMATION |      |      |     |    |     |     |     |   |   |      |
|-----------|-----------------|-------------|-----------------|---------------|--------------|---------------|------|------|-----|----|-----|-----|-----|---|---|------|
| SAMPLE    | SAMPLE ID       | FLUID BRAND | FLUID TYPE      | FLUID         | FLUID        | FILTER        | V100 | V40  | VI  | ST | OXI | SUL | NIT | W | F | PFc  |
| DATE      |                 |             |                 | WEIGHT        | CHANGE       | CHANGE        |      |      |     |    |     |     |     |   |   |      |
| 20-May-19 | T010-49147-0419 | FUCHS       | CARGO           | 15W-40        | Y            | Y             | 11.5 | 80.1 | 135 | 26 | 16  | 22  | 8   | N | N | 5.63 |
| 26-Feb-19 | T010-49064-0513 | FUCHS       | CARGO           | 15W-40        | Y            | Y             | 12.0 | 83.2 | 138 | 26 | 16  | 22  | 7   | N | N | 5.13 |
| 28-Jan-19 | T010-49032-0408 | FUCHS       | CARGO           | 15W-40        | Y            | Y             | 13.7 | 97.7 | 141 | 31 | 13  | 20  | 5   | N | N |      |
| 20-Nov-18 | T010-48327-0121 | FUCHS       | CARGO           | 15W-40        | Υ            | Υ             | 12.3 | 87.3 | 136 | 27 | 17  | 22  | 8   | N | N | 3.85 |

|           |                 | OIL    | CLEANLINESS |     |
|-----------|-----------------|--------|-------------|-----|
| SAMPLE    | SAMPLE ID       | FLUID  | FILTER      | PQI |
| DATE      |                 | CHANGE | CHANGE      |     |
| 20-May-19 | T010-49147-0419 | Υ      | Y           | 7   |
| 26-Feb-19 | T010-49064-0513 | Y      | Y           | 3   |
| 28-Jan-19 | T010-49032-0408 | Υ      | Y           | 0   |
| 20-Nov-18 | T010-48327-0121 | Υ      | Υ           | 3   |

Ag = Silver, Al = Aluminum, B = Boron, Ca = Calcium, Cd = Cadmium, Cr = Chromium, Cr = Chrom, Cr = Chromium, Cr = Chromium, Cr = Chromium, Cr = Chromium, Cr



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# **CONTACT INFORMATION**

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PHONE: 5152 2844

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Email: workshop@whelansgroup.com.au

Interp By: Barry Swindells

**EQUIPMENT** 

EQUIP NUM: TK45

SERIAL NUMBER: TK45\_WHELANS

MODEL: FFR500

MANUFACTURER: ISUZU

COMPANY NAME: WHELANS GROUP INVESTMENTS PTY LTD

JOB SITE:

AREA:

REGION:

SAMPLE INFORMATION

COMPARTMENT NAME: ENGINE TRUCK

COMP SERIAL NUM:

COMPARTMENT MODEL :

LABEL#:

SHOP JOB NUM:

SAMPLE TYPE: OIL

SAMPLE SHIP TIME (days): 11

SAMPLE LOCATION: WORK SHOP

**Action Required** 

FUEL TEST INDICATE FUEL DILUTION, ENSURE CORRECT COMPARTMENT CONDOITION, MONITOR THE COMPARTMENT OIL LEVEL, RESAMPLE AT HALF THE RECOMMENDED INTERVAL.

LAB#

T010-50098-0316

|                |                 | WEAR/0          | ONTAMINATION -    | - ADDITIVES/F   | ORMULATION       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |     |      |     |    |     |
|----------------|-----------------|-----------------|-------------------|-----------------|------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|-----|------|-----|----|-----|
| SAMPLE<br>DATE | SAMPLE ID       | METER<br>( KM ) | METER ON<br>FLUID | FLUID<br>CHANGE | FILTER<br>CHANGE | Cu | Fe | Cr | Al | Pb | Sn | Si | Na | К  | Мо | Ni | Ag | Ti | ٧  | Mn | Cd | Са   | Р   | Zn   | Mg  | Ва | В   |
| 27-Mar-20      | T010-50098-0316 | 636251          | 10000             | Y               | Υ                | 1  | 9  | 2  | 2  | 0  | 0  | 3  | 1  | 1  | 1  | 0  | 0  | 0  | 0  | 0  | 0  | 2250 | 860 | 1027 | 11  | 0  | 1   |
| 04-Dec-19      | T010-49351-0221 | 627165          | 13165             | Υ               | Υ                | 1  | 12 | 2  | 2  | <1 | <1 | 4  | 2  | 2  | 3  | <1 | <1 | <1 | <1 | <1 | <1 | 2138 | 755 | 934  | 18  |    | 9   |
| 09-Aug-19      | T010-49225-0329 | 614000          | 5000              | Υ               | Υ                | <1 | 13 | 2  | 2  | <1 | <1 | 4  | 4  | <1 | 14 | <1 | <1 | <1 | <1 | <1 | <1 | 2140 | 802 | 1015 | 64  |    | 45  |
| 20-May-19      | T010-49147-0419 | 603978          | 10445             | Υ               | Υ                | <1 | 13 | 2  | 3  | <1 | <1 | 6  | 4  | <1 | 82 | <1 | <1 | <1 | <1 | <1 | <1 | 1227 | 828 | 1055 | 354 |    | 313 |

|           |                 |             | OIL FORMULATION | - OIL CONDITION | ON - OIL CO | NOITANIMATION |      |      |     |    |     |     |     |   |   |      |
|-----------|-----------------|-------------|-----------------|-----------------|-------------|---------------|------|------|-----|----|-----|-----|-----|---|---|------|
| SAMPLE    | SAMPLE ID       | FLUID BRAND | FLUID TYPE      | FLUID           | FLUID       | FILTER        | V100 | V40  | VI  | ST | OXI | SUL | NIT | W | F | PFc  |
| DATE      |                 |             |                 | WEIGHT          | CHANGE      | CHANGE        |      |      |     |    |     |     |     |   |   |      |
| 27-Mar-20 | T010-50098-0316 | FUCHS       | CARGO           | 15W-40          | Y           | Υ             | 11.7 | 84.1 | 131 | 18 | 12  | 18  | 8   | N | Р | 6.01 |
| 04-Dec-19 | T010-49351-0221 | FUCHS       | CARGO           | 15W-40          | Y           | Υ             | 11.8 | 83.4 | 134 | 24 | 14  | 21  | 9   | N | N | 5.57 |
| 09-Aug-19 | T010-49225-0329 | FUCHS       | CARGO           | 15W-40          | Y           | Υ             | 11.8 | 86.0 | 129 | 24 | 14  | 20  | 9   | N |   |      |
| 20-May-19 | T010-49147-0419 | FUCHS       | CARGO           | 15W-40          | Υ           | Υ             | 11.5 | 80.1 | 135 | 26 | 16  | 22  | 8   | N | N | 5.63 |

|           |                 | OIL    | CLEANLINESS |     |
|-----------|-----------------|--------|-------------|-----|
| SAMPLE    | SAMPLE ID       | FLUID  | FILTER      | PQI |
| DATE      |                 | CHANGE | CHANGE      |     |
| 27-Mar-20 | T010-50098-0316 | Υ      | Υ           | 5   |
| 04-Dec-19 | T010-49351-0221 | Y      | Y           | 3   |
| 09-Aug-19 | T010-49225-0329 | Υ      | Y           | 2   |
| 20-May-19 | T010-49147-0419 | Υ      | Υ           | 7   |

Ag = Silver, Al = Aluminum, B = Boron, Ba = Barium, Ca = Calcium, Cd = Cadmium, Cr = Chromium, Cu = Copper, F = Fuel, Fe = Iron, K = Potassium, Mg = Magnesium, Mg = Magnesium, Ni = Nitration, Ni = Nitration

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# **CONTACT INFORMATION**

MARCUS LUCHETTA

WHELANS GROUP INVESTMENTS

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FAX:

Email: workshop@whelansgroup.com.au

Interp By: Barry Swindells

**EQUIPMENT** 

CUSTOMER EQUIP NUM: TK45

SERIAL NUMBER: TK45\_WHELANS

MODEL: ISUZU\_ISUZU

MANUFACTURER: ISUZU

COMPANY NAME: WHELANS GROUP INVESTMENTS PTY LTD

JOB SITE:

AREA:

REGION:

SAMPLE INFORMATION

COMPARTMENT NAME : ENGINE TRUCK

COMP SERIAL NUM:

COMPARTMENT MODEL :

LABEL#:

SHOP JOB NUM :

SAMPLE TYPE: OIL

SAMPLE SHIP TIME (days): 4

SAMPLE LOCATION: BAIRNSDALE

No Action Required

OIL CONDITION SATISFACTORY, CONTINUE SAMPLING AT THE RECOMMENDED INTERVAL. MORE SAMPLES NEEDED TO DEVELOP A TREND.

LAB#

T010-47150-0218

|                |                 |                 | WEAR/CO        | NTAMINATION -   | ADDITIVES/FOR    | MULATION        |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |     |      |     |     |
|----------------|-----------------|-----------------|----------------|-----------------|------------------|-----------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|-----|------|-----|-----|
| SAMPLE<br>DATE | SAMPLE ID       | METER<br>( KM ) | METER ON FLUID | FLUID<br>CHANGE | FILTER<br>CHANGE | OVERALL<br>EVAL | Cu | Fe | Cr | Al | Pb | Sn | Si | Na | К  | Мо | Ni | Ag | Ti | V  | Mn | Cd | Ca   | Р   | Zn   | Mg  | В   |
| 26-May-17      | T010-47150-0218 | 524000          | 10000          | Υ               | Υ                |                 | <1 | 9  | 1  | 3  | <1 | <1 | 5  | 2  | <1 | 87 | <1 | <1 | <1 | <1 | <1 | <1 | 1284 | 902 | 1143 | 369 | 354 |

|                |                 |             |            | OIL FORMULATI   | ON - OIL COND   | TION - OIL CON   | TAMINATION      |      |    |     |     |     |   |   |      |
|----------------|-----------------|-------------|------------|-----------------|-----------------|------------------|-----------------|------|----|-----|-----|-----|---|---|------|
| SAMPLE<br>DATE | SAMPLE ID       | FLUID BRAND | FLUID TYPE | FLUID<br>WEIGHT | FLUID<br>CHANGE | FILTER<br>CHANGE | OVERALL<br>EVAL | V40  | ST | OXI | SUL | NIT | W | F | PFc  |
| 26-May-17      | T010-47150-0218 | FUCHS       | CARGO      | 15W-40          | Y               | Y                |                 | 83.7 | 15 | 16  | 25  | 7   | N | N | 3.87 |

|                |                 |                 | OIL              | CLEANLINESS     |     |
|----------------|-----------------|-----------------|------------------|-----------------|-----|
| SAMPLE<br>DATE | SAMPLE ID       | FLUID<br>CHANGE | FILTER<br>CHANGE | OVERALL<br>EVAL | PQI |
| 26-May-17      | T010-47150-0218 | Y               | Υ                |                 | 9   |

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AUS 3875

PHONE: 5152 2844

FAX:

Email: workshop@whelansgroup.com.au

Interp By: Tom Cokalis

**EQUIPMENT** 

CUSTOMER EQUIP NUM: TK45

SERIAL NUMBER: TK45\_WHELANS

MODEL: FFR500

MANUFACTURER: ISUZU

COMPANY NAME: WHELANS GROUP INVESTMENTS PTY LTD

JOB SITE:

AREA:

REGION:

SAMPLE INFORMATION

COMPARTMENT NAME : ENGINE TRUCK

COMP SERIAL NUM:

COMPARTMENT MODEL :

LABEL#:

SHOP JOB NUM:

SAMPLE TYPE: OIL

SAMPLE SHIP TIME (days): 2

SAMPLE LOCATION: BAIRNSDALE

No Action Required

OIL CONDITION SATISFACTORY, CONTINUE SAMPLING AT THE RECOMMENDED INTERVAL.

LAB#

T010-47257-0120

|                |                 | WEAR/0          | CONTAMINATION     | - ADDITIVES/F   | ORMULATION       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |     |      |     |     |
|----------------|-----------------|-----------------|-------------------|-----------------|------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|-----|------|-----|-----|
| SAMPLE<br>DATE | SAMPLE ID       | METER<br>( KM ) | METER ON<br>FLUID | FLUID<br>CHANGE | FILTER<br>CHANGE | Cu | Fe | Cr | Al | Pb | Sn | Si | Na | К  | Мо | Ni | Ag | Ti | ٧  | Mn | Cd | Ca   | Р   | Zn   | Mg  | В   |
| 12-Sep-17      | T010-47257-0120 | 535848          | 10000             | Υ               | Υ                | <1 | 6  | <1 | 3  | <1 | <1 | 8  | 1  | <1 | 85 | <1 | <1 | <1 | <1 | <1 | <1 | 1220 | 830 | 1090 | 355 | 377 |
| 26-May-17      | T010-47150-0218 | 524000          | 10000             | Υ               | Y                | <1 | 9  | 1  | 3  | <1 | <1 | 5  | 2  | <1 | 87 | <1 | <1 | <1 | <1 | <1 | <1 | 1284 | 902 | 1143 | 369 | 354 |

| ı |           |                 |             | OIL FORMULATION | - OIL CONDITION | ON - OIL CO | NOITAMINATION |      |    |     |     |     |   |   |      |
|---|-----------|-----------------|-------------|-----------------|-----------------|-------------|---------------|------|----|-----|-----|-----|---|---|------|
|   | SAMPLE    | SAMPLE ID       | FLUID BRAND | FLUID TYPE      | FLUID           | FLUID       | FILTER        | V40  | ST | OXI | SUL | NIT | W | F | PFc  |
|   | DATE      |                 |             |                 | WEIGHT          | CHANGE      | CHANGE        |      |    |     |     |     |   |   |      |
|   | 12-Sep-17 | T010-47257-0120 | FUCHS       | CARGO           | 15W-40          | Y           | Y             | 89.8 | 10 | 15  | 21  | 6   | N | N | 3.00 |
|   | 26-May-17 | T010-47150-0218 | FUCHS       | CARGO           | 15W-40          | Y           | Υ             | 83.7 | 15 | 16  | 25  | 7   | N | N | 3.87 |

|           |                 | OIL    | CLEANLINESS |     |
|-----------|-----------------|--------|-------------|-----|
| SAMPLE    | SAMPLE ID       | FLUID  | FILTER      | PQI |
| DATE      |                 | CHANGE | CHANGE      |     |
| 12-Sep-17 | T010-47257-0120 | Υ      | Y           | 4   |
| 26-May-17 | T010-47150-0218 | Υ      | Υ           | 9   |

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Interp By: Barry Swindells

POSSIBLE FUEL DILUTION OCCURING, CONTINUE SAMPLING AT THE RECOMMENDED INTERVAL TO MONITOR.

Monitor

Compartment

LAB#

T010-48030-0126

# **EQUIPMENT**

**CUSTOMER EQUIP NUM: TK45** 

SERIAL NUMBER: TK45\_WHELANS

MODEL: FFR500

MANUFACTURER: ISUZU

COMPANY NAME: WHELANS GROUP INVESTMENTS PTY LTD

JOB SITE: AREA:

REGION:

# SAMPLE INFORMATION

COMPARTMENT NAME: ENGINE TRUCK

COMP SERIAL NUM:

COMPARTMENT MODEL:

LABEL#:

SHOP JOB NUM:

SAMPLE TYPE: OIL

SAMPLE SHIP TIME (days): 6

SAMPLE LOCATION: BAIRNSDALE

|                |                 | WEAR/0          | CONTAMINATION -   | ADDITIVES/F     | ORMULATION       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |     |      |     |     |
|----------------|-----------------|-----------------|-------------------|-----------------|------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|-----|------|-----|-----|
| SAMPLE<br>DATE | SAMPLE ID       | METER<br>( KM ) | METER ON<br>FLUID | FLUID<br>CHANGE | FILTER<br>CHANGE | Cu | Fe | Cr | Al | Pb | Sn | Si | Na | К  | Мо | Ni | Ag | Ti | ٧  | Mn | Cd | Ca   | Р   | Zn   | Mg  | В   |
| 24-Jan-18      | T010-48030-0126 | 548238          | 12390             | Υ               | Υ                | <1 | 11 | 2  | 4  | 1  | 1  | 7  | 2  | 1  | 85 | <1 | <1 | <1 | <1 | <1 | <1 | 1175 | 839 | 1076 | 340 | 324 |
| 12-Sep-17      | T010-47257-0120 | 535848          | 10000             | Υ               | Υ                | <1 | 6  | <1 | 3  | <1 | <1 | 8  | 1  | <1 | 85 | <1 | <1 | <1 | <1 | <1 | <1 | 1220 | 830 | 1090 | 355 | 377 |
| 26-May-17      | T010-47150-0218 | 524000          | 10000             | Y               | Y                | <1 | 9  | 1  | 3  | <1 | <1 | 5  | 2  | <1 | 87 | <1 | <1 | <1 | <1 | <1 | <1 | 1284 | 902 | 1143 | 369 | 354 |

|           |                 |             | OIL FORMULATION | - OIL CONDITION | ON - OIL CO | NTAMINATION |      |    |     |     |     |   |   |      |
|-----------|-----------------|-------------|-----------------|-----------------|-------------|-------------|------|----|-----|-----|-----|---|---|------|
| SAMPLE    | SAMPLE ID       | FLUID BRAND | FLUID TYPE      | FLUID           | FLUID       | FILTER      | V40  | ST | OXI | SUL | NIT | W | F | PFc  |
| DATE      |                 |             |                 | WEIGHT          | CHANGE      | CHANGE      |      |    |     |     |     |   |   |      |
| 24-Jan-18 | T010-48030-0126 | FUCHS       | CARGO           | 15W-40          | Υ           | Υ           | 81.0 | 15 | 17  | 22  | 8   | N | N | 4.02 |
| 12-Sep-17 | T010-47257-0120 | FUCHS       | CARGO           | 15W-40          | Y           | Y           | 89.8 | 10 | 15  | 21  | 6   | N | N | 3.00 |
| 26-May-17 | T010-47150-0218 | FUCHS       | CARGO           | 15W-40          | Υ           | Υ           | 83.7 | 15 | 16  | 25  | 7   | N | N | 3.87 |

|           |                 | OIL    | CLEANLINESS |     |
|-----------|-----------------|--------|-------------|-----|
| SAMPLE    | SAMPLE ID       | FLUID  | FILTER      | PQI |
| DATE      |                 | CHANGE | CHANGE      |     |
| 24-Jan-18 | T010-48030-0126 | Y      | Υ           | 1   |
| 12-Sep-17 | T010-47257-0120 | Y      | Y           | 4   |
| 26-May-17 | T010-47150-0218 | Υ      | Y           | 9   |

Ag = Silver, Al = Aluminum, B = Boron, Ca = Calcium, Cd = Cadmium, Cr = Chromium, Cu = Copper, F = Fuel, Fe = Iron, K = Potassium, Mn = Manganese, Mo = Molybdenum, NIT = Nitration, Na = Sodium, Ni = Nickel, OXI = Oxidation, P = Phosphorus, PFC = Percent Fuel Content, PQI = Particle Quantifying index, Pb = Lead, ST = Soot, SUL = Sulfation, Si = Silicon, Sn = Tin, Ti = Titanium, V = Vanadium, V40 = Viscosity@40C, W = Water, Zn = Zinc

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Interp By: Tom Cokalis

#### **EQUIPMENT**

CUSTOMER EQUIP NUM: TK45

SERIAL NUMBER: TK45\_WHELANS

MODEL: FFR500

MANUFACTURER: ISUZU

COMPANY NAME: WHELANS GROUP INVESTMENTS PTY LTD

JOB SITE:

AREA:

REGION:

#### SAMPLE INFORMATION

COMPARTMENT NAME : ENGINE TRUCK

COMP SERIAL NUM:

COMPARTMENT MODEL :

LABEL#:

SHOP JOB NUM:

SAMPLE TYPE: OIL

SAMPLE SHIP TIME (days): 3

SAMPLE LOCATION: WORK SHOP

#### **Action Required**

FUEL DILUTION OF 5.4% Vol. IS WITHIN THE CATERPILLAR LIMIT OF 6% Vol. HOWEVER ONLY 7762 HOURS ON THE OIL. LOW OIL VISCOSITY AND FUEL TEST INDICATES A MODERATE LEVEL OF FUEL DILUTION. CHECK WITH ENGINE MANUFACTURER FOR THE MAXIMUM ALLOWABLE FUEL DILUTION PERCENTAGE. MONITOR COMPARTMENT FOR RISING OIL LEVEL. ALL OTHER TEST RESULTS APPEAR ACCEPTABLE. CHECK

LAB#

T010-48130-0118

& ENSURE THIS COMPARTMENT OPERATING CORRECTLY. MONITOR IDLE TIME. INVESTIGATE THE CAUSE OF FUEL DILUTION THEN

RESAMPLE AT THE NEXT RECOMMENDED SERVICE INTERVAL.

|           |                 | WEAR/  | CONTAMINATION | - ADDITIVES/F | ORMULATION |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |     |      |     |     |
|-----------|-----------------|--------|---------------|---------------|------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|-----|------|-----|-----|
| SAMPLE    | SAMPLE ID       | METER  | METER ON      | FLUID         | FILTER     | Cu | Fe | Cr | Al | Pb | Sn | Si | Na | K  | Мо | Ni | Ag | Ti | V  | Mn | Cd | Ca   | Р   | Zn   | Mg  | В   |
| DATE      |                 | ( KM ) | FLUID         | CHANGE        | CHANGE     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |     |      |     |     |
| 07-May-18 | T010-48130-0118 | 556000 | 7762          | Υ             | Y          | <1 | 9  | 2  | 3  | 2  | 1  | 5  | 2  | <1 | 82 | <1 | <1 | <1 | <1 | <1 | <1 | 1293 | 920 | 1210 | 351 | 339 |
| 24-Jan-18 | T010-48030-0126 | 548238 | 12390         | Υ             | Y          | <1 | 11 | 2  | 4  | 1  | 1  | 7  | 2  | 1  | 85 | <1 | <1 | <1 | <1 | <1 | <1 | 1175 | 839 | 1076 | 340 | 324 |
| 12-Sep-17 | T010-47257-0120 | 535848 | 10000         | Υ             | Y          | <1 | 6  | <1 | 3  | <1 | <1 | 8  | 1  | <1 | 85 | <1 | <1 | <1 | <1 | <1 | <1 | 1220 | 830 | 1090 | 355 | 377 |
| 26-May-17 | T010-47150-0218 | 524000 | 10000         | Y             |            | <1 | 9  | 1  | 3  | <1 | <1 | 5  | 2  | <1 | 87 | <1 | <1 | <1 | <1 | <1 | <1 | 1284 | 902 | 1143 | 369 | 354 |

|           |                 |             | OIL FORMULATION | - OIL CONDITI | ON - OIL CO | NOITAMINATION |      |      |     |    |     |     |     |     |   |      |
|-----------|-----------------|-------------|-----------------|---------------|-------------|---------------|------|------|-----|----|-----|-----|-----|-----|---|------|
| SAMPLE    | SAMPLE ID       | FLUID BRAND | FLUID TYPE      | FLUID         | FLUID       | FILTER        | V100 | V40  | VI  | ST | OXI | SUL | NIT | W   | F | PFc  |
| DATE      |                 |             |                 | WEIGHT        | CHANGE      | CHANGE        |      |      |     |    |     |     |     |     |   |      |
| 07-May-18 | T010-48130-0118 | FUCHS       | CARGO           | 15W-40        | Y           | Υ             | 12.2 | 83.7 | 141 | 20 | 16  | 21  | 7   | N   | N | 5.41 |
| 24-Jan-18 | T010-48030-0126 | FUCHS       | CARGO           | 15W-40        | Y           | Y             |      | 81.0 |     | 15 | 17  | 22  | 8   | N   | N | 4.02 |
| 12-Sep-17 | T010-47257-0120 | FUCHS       | CARGO           | 15W-40        | Y           | Y             |      | 89.8 |     | 10 | 15  | 21  | 6   | N   | N | 3.00 |
| 26-May-17 | T010_47150_0218 | FLICHS      | CARGO           | 15W-40        |             |               |      | 83 7 |     | 15 | 16  | 25  | 7   | l N | N | 3 87 |

|           |                 | OIL    | CLEANLINESS |     |
|-----------|-----------------|--------|-------------|-----|
| SAMPLE    | SAMPLE ID       | FLUID  | FILTER      | PQI |
| DATE      |                 | CHANGE | CHANGE      |     |
| 07-May-18 | T010-48130-0118 | Υ      | Υ           | 2   |
| 24-Jan-18 | T010-48030-0126 | Y      | Y           | 1   |
| 12-Sep-17 | T010-47257-0120 | Y      | Y           | 4   |
| 26-May-17 | T010-47150-0218 | Υ      | Υ           | 9   |

Ag = Silver, Al = Aluminum, B = Boron, Ca = Calcium, Cd = Cadmium, Cr = Chromium, Cr = Chromium, Cu = Copper, F = Fuel, Fe = Iron, K = Potassium, Mg = Magnesium, Mn = Manganese, Mo = Molybdenum, NIT = Nitration, Na = Sodium, Ni = Nickel, OXI = Oxidation, P = Phosphorus, PFC = Percent Fuel Content, POI = Particle Quantifying index, Pb = Lead, ST = Soot, SUL = Sulfation, Si = Silicon, Sn = Tin, Ti = Titanium, V = Vanadium, V100 = Viscosity@40C, VI = Viscosity@10C, VI = Viscosity@10C,

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AUS 3875

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LAB#

Email: workshop@whelansgroup.com.au

Interp By: Tom Cokalis

**EQUIPMENT** 

**CUSTOMER EQUIP NUM: TK45** 

SERIAL NUMBER: TK45\_WHELANS

MODEL: FFR500

MANUFACTURER: ISUZU

COMPANY NAME: WHELANS GROUP INVESTMENTS PTY LTD

JOB SITE:

AREA:

REGION:

SAMPLE INFORMATION

COMPARTMENT NAME : ENGINE TRUCK

COMP SERIAL NUM:

COMPARTMENT MODEL :

LABEL#:

SHOP JOB NUM:

SAMPLE TYPE: OIL

SAMPLE SHIP TIME (days): 5

SAMPLE LOCATION: WORK SHOP

Monitor

Compartment

FUEL DILUTION LEVEL IS JUST WITHIN THE CATERPILLAR LIMIT OF 6.0% Vol. OIL VISCOSITY IS SLIGHTLY LOW. MONITOR IDLE TIME. MONITOR COMPARTMENT FOR RISING OIL LEVEL. WEAR METAL LEVELS ARE ACCEPTABLE. ALL OTHER TEST RESULTS APPEAR ACCEPTABLE.

CHECK & ENSURE THIS COMPARTMENT OPERATING CORRECTLY. AFTER INSPECTION RESAMPLE AT THE NEXT SERVICE INTERVAL TO RE-

**EVALUATE CONDITION.** 

T010-48247-0127

|                |                 | WEAR/C          | CONTAMINATION -   | - ADDITIVES/F   | ORMULATION       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |     |      |     |     |
|----------------|-----------------|-----------------|-------------------|-----------------|------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|-----|------|-----|-----|
| SAMPLE<br>DATE | SAMPLE ID       | METER<br>( KM ) | METER ON<br>FLUID | FLUID<br>CHANGE | FILTER<br>CHANGE | Cu | Fe | Cr | Al | Pb | Sn | Si | Na | К  | Мо | Ni | Ag | Ti | ٧  | Mn | Cd | Ca   | Р   | Zn   | Mg  | В   |
| 30-Aug-18      | T010-48247-0127 | 571357          | 15357             | Υ               | Υ                | <1 | 15 | 3  | 3  | 1  | 2  | 6  | 2  | <1 | 74 | <1 | <1 | <1 | <1 | <1 | <1 | 1160 | 845 | 1043 | 313 | 287 |
| 07-May-18      | T010-48130-0118 | 556000          | 7762              | Υ               | Υ                | <1 | 9  | 2  | 3  | 2  | 1  | 5  | 2  | <1 | 82 | <1 | <1 | <1 | <1 | <1 | <1 | 1293 | 920 | 1210 | 351 | 339 |
| 24-Jan-18      | T010-48030-0126 | 548238          | 12390             | Υ               | Υ                | <1 | 11 | 2  | 4  | 1  | 1  | 7  | 2  | 1  | 85 | <1 | <1 | <1 | <1 | <1 | <1 | 1175 | 839 | 1076 | 340 | 324 |
| 12-Sep-17      | T010-47257-0120 | 535848          | 10000             | Υ               | Y                | <1 | 6  | <1 | 3  | <1 | <1 | 8  | 1  | <1 | 85 | <1 | <1 | <1 | <1 | <1 | <1 | 1220 | 830 | 1090 | 355 | 377 |

|           |                 |             | OIL FORMULATION | - OIL CONDITION | ON - OIL COI | NOITANIMATION |      |      |     |    |     |     |     |   |   |      |
|-----------|-----------------|-------------|-----------------|-----------------|--------------|---------------|------|------|-----|----|-----|-----|-----|---|---|------|
| SAMPLE    | SAMPLE ID       | FLUID BRAND | FLUID TYPE      | FLUID           | FLUID        | FILTER        | V100 | V40  | VI  | ST | OXI | SUL | NIT | W | F | PFc  |
| DATE      |                 |             |                 | WEIGHT          | CHANGE       | CHANGE        |      |      |     |    |     |     |     |   |   |      |
| 30-Aug-18 | T010-48247-0127 | FUCHS       | CARGO           | 15W-40          | Υ            | Υ             | 11.6 | 81.9 | 133 | 30 | 18  | 23  | 9   | N | N | 5.84 |
| 07-May-18 | T010-48130-0118 | FUCHS       | CARGO           | 15W-40          | Y            | Y             | 12.2 | 83.7 | 141 | 20 | 16  | 21  | 7   | N | N | 5.41 |
| 24-Jan-18 | T010-48030-0126 | FUCHS       | CARGO           | 15W-40          | Y            | Y             |      | 81.0 |     | 15 | 17  | 22  | 8   | N | N | 4.02 |
| 12-Sep-17 | T010-47257-0120 | FUCHS       | CARGO           | 15W-40          | Y            | Υ             |      | 89.8 |     | 10 | 15  | 21  | 6   | N | N | 3.00 |

|           |                 | OIL    | CLEANLINESS |     |
|-----------|-----------------|--------|-------------|-----|
| SAMPLE    | SAMPLE ID       | FLUID  | FILTER      | PQI |
| DATE      |                 | CHANGE | CHANGE      |     |
| 30-Aug-18 | T010-48247-0127 | Υ      | Υ           | 0   |
| 07-May-18 | T010-48130-0118 | Y      | Y           | 2   |
| 24-Jan-18 | T010-48030-0126 | Y      | Y           | 1   |
| 12-Sep-17 | T010-47257-0120 | Υ      | Υ           | 4   |

Ag = Silver, Al = Aluminum, B = Boron, Ca = Calcium, Cd = Cadmium, Cr = Chromium, Cu = Copper, F = Fuel, Fe = Iron, K = Potassium, Mg = Mangenesium, Mn = Mangenese, Mo = Molybdenum, NIT = Nitration, Na = Sodium, Ni = Nickel, OXI = Oxidation, P = Phosphorus, PFC = Percent Fuel Content, PQI = Particle Quantifying index, Pb = Lead, ST = Soot, SUL = Sulfation, Si = Silicon, Sn = Tin, Ti = Titanium, V = Vanadium, V100 = Viscosity@40C, VI = Viscosity@10C, VI = Viscosi



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Email: workshop@whelansgroup.com.au

Interp By: Tom Cokalis

**EQUIPMENT** 

**CUSTOMER EQUIP NUM: TK45** 

SERIAL NUMBER: TK45\_WHELANS

MODEL: FFR500

MANUFACTURER: ISUZU

COMPANY NAME: WHELANS GROUP INVESTMENTS PTY LTD

JOB SITE:

AREA:

REGION:

SAMPLE INFORMATION

COMPARTMENT NAME : ENGINE TRUCK

COMP SERIAL NUM:

COMPARTMENT MODEL :

LABEL#:

SHOP JOB NUM:

SAMPLE TYPE: OIL

SAMPLE SHIP TIME (days): 3

SAMPLE LOCATION: WORK SHOP

No Action Required

OIL CONDITION SATISFACTORY, CONTINUE SAMPLING AT THE RECOMMENDED INTERVAL.

LAB#

T010-48327-0121

|                |                 | WEAR/C          | ONTAMINATION -    | ADDITIVES/F     | ORMULATION       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |     |      |     |     |
|----------------|-----------------|-----------------|-------------------|-----------------|------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|-----|------|-----|-----|
| SAMPLE<br>DATE | SAMPLE ID       | METER<br>( KM ) | METER ON<br>FLUID | FLUID<br>CHANGE | FILTER<br>CHANGE | Cu | Fe | Cr | Al | Pb | Sn | Si | Na | К  | Мо | Ni | Ag | Ti | ٧  | Mn | Cd | Ca   | Р   | Zn   | Mg  | В   |
| 20-Nov-18      | T010-48327-0121 | 581096          | 15000             | Υ               | Υ                | <1 | 15 | 2  | 4  | 1  | 2  | 6  | 1  | 1  | 80 | <1 | <1 | <1 | <1 | <1 | <1 | 1236 | 891 | 1127 | 360 | 338 |
| 30-Aug-18      | T010-48247-0127 | 571357          | 15357             | Υ               | Y                | <1 | 15 | 3  | 3  | 1  | 2  | 6  | 2  | <1 | 74 | <1 | <1 | <1 | <1 | <1 | <1 | 1160 | 845 | 1043 | 313 | 287 |
| 07-May-18      | T010-48130-0118 | 556000          | 7762              | Υ               | Υ                | <1 | 9  | 2  | 3  | 2  | 1  | 5  | 2  | <1 | 82 | <1 | <1 | <1 | <1 | <1 | <1 | 1293 | 920 | 1210 | 351 | 339 |
| 24-Jan-18      | T010-48030-0126 | 548238          | 12390             | Υ               | Y                | <1 | 11 | 2  | 4  | 1  | 1  | 7  | 2  | 1  | 85 | <1 | <1 | <1 | <1 | <1 | <1 | 1175 | 839 | 1076 | 340 | 324 |

|           |                 |             | OIL FORMULATION | - OIL CONDITION | ON - OIL CO | NTAMINATION |      |      |     |    |     |     |     |   |   |      |
|-----------|-----------------|-------------|-----------------|-----------------|-------------|-------------|------|------|-----|----|-----|-----|-----|---|---|------|
| SAMPLE    | SAMPLE ID       | FLUID BRAND | FLUID TYPE      | FLUID           | FLUID       | FILTER      | V100 | V40  | VI  | ST | OXI | SUL | NIT | W | F | PFc  |
| DATE      |                 |             |                 | WEIGHT          | CHANGE      | CHANGE      |      |      |     |    |     |     |     |   |   |      |
| 20-Nov-18 | T010-48327-0121 | FUCHS       | CARGO           | 15W-40          | Y           | Υ           | 12.3 | 87.3 | 136 | 27 | 17  | 22  | 8   | N | N | 3.85 |
| 30-Aug-18 | T010-48247-0127 | FUCHS       | CARGO           | 15W-40          | Y           | Υ           | 11.6 | 81.9 | 133 | 30 | 18  | 23  | 9   | N | N | 5.84 |
| 07-May-18 | T010-48130-0118 | FUCHS       | CARGO           | 15W-40          | Y           | Y           | 12.2 | 83.7 | 141 | 20 | 16  | 21  | 7   | N | N | 5.41 |
| 24-Jan-18 | T010-48030-0126 | FUCHS       | CARGO           | 15W-40          | Υ           | Υ           |      | 81.0 |     | 15 | 17  | 22  | 8   | N | N | 4.02 |

|           |                 | OIL    | CLEANLINESS |     |
|-----------|-----------------|--------|-------------|-----|
| SAMPLE    | SAMPLE ID       | FLUID  | FILTER      | PQI |
| DATE      |                 | CHANGE | CHANGE      |     |
| 20-Nov-18 | T010-48327-0121 | Υ      | Υ           | 3   |
| 30-Aug-18 | T010-48247-0127 | Υ      | Υ           | 0   |
| 07-May-18 | T010-48130-0118 | Υ      | Y           | 2   |
| 24-Jan-18 | T010-48030-0126 | Υ      | Υ           | 1   |

Ag = Silver, Al = Aluminum, B = Boron, Ca = Calcium, Cd = Cadmium, Cr = Chromium, Cu = Copper, F = Fuel, Fe = Iron, K = Potassium, Mg = Magnesium, Mn = Manganese, Mo = Molybdenum, NIT = Nitration, Na = Sodium, Ni = Nickel, OXI = Oxidation, P = Phosphorus, PFC = Percent Fuel Content, PQI = Particle Quantifying index, Pb = Lead, ST = Soot, SUL = Sulfation, Si = Silicon, Sn = Tin, Ti = Titanium, V = Vanadium, V100 = Viscosity@40C, VI = Viscosity@10C, VI = Viscosity index, W = Water, Zn = Zinc

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Interp By: Barry Swindells

**EQUIPMENT** 

CUSTOMER EQUIP NUM: TK45

SERIAL NUMBER: TK45\_WHELANS

MODEL: FFR500

MANUFACTURER: ISUZU

COMPANY NAME: WHELANS GROUP INVESTMENTS PTY LTD

JOB SITE:

AREA:

REGION:

SAMPLE INFORMATION

COMPARTMENT NAME : ENGINE TRUCK

COMP SERIAL NUM:

COMPARTMENT MODEL :

LABEL#:

SHOP JOB NUM:

SAMPLE TYPE: OIL

SAMPLE SHIP TIME (days): 4

SAMPLE LOCATION: WORK SHOP

No Action Required

OIL CONDITION SATISFACTORY, CONTINUE SAMPLING AT THE RECOMMENDED INTERVAL.

LAB#

T010-49032-0408

|                |                 | WEAR/0          | ONTAMINATION -    | ADDITIVES/F     | ORMULATION       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |     |      |     |     |
|----------------|-----------------|-----------------|-------------------|-----------------|------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|-----|------|-----|-----|
| SAMPLE<br>DATE | SAMPLE ID       | METER<br>( KM ) | METER ON<br>FLUID | FLUID<br>CHANGE | FILTER<br>CHANGE | Cu | Fe | Cr | Al | Pb | Sn | Si | Na | К  | Мо | Ni | Ag | Ti | V  | Mn | Cd | Ca   | Р   | Zn   | Mg  | В   |
| 28-Jan-19      | T010-49032-0408 | 522000          | 10000             | Υ               | Υ                | <1 | 10 | <1 | 4  | <1 | 3  | 7  | 3  | <1 | 82 | <1 | <1 | <1 | <1 | <1 | <1 | 1318 | 918 | 1148 | 380 | 379 |
| 20-Nov-18      | T010-48327-0121 | 581096          | 15000             | Υ               | Y                | <1 | 15 | 2  | 4  | 1  | 2  | 6  | 1  | 1  | 80 | <1 | <1 | <1 | <1 | <1 | <1 | 1236 | 891 | 1127 | 360 | 338 |
| 30-Aug-18      | T010-48247-0127 | 571357          | 15357             | Υ               | Υ                | <1 | 15 | 3  | 3  | 1  | 2  | 6  | 2  | <1 | 74 | <1 | <1 | <1 | <1 | <1 | <1 | 1160 | 845 | 1043 | 313 | 287 |
| 07-May-18      | T010-48130-0118 | 556000          | 7762              | Υ               | Y                | <1 | 9  | 2  | 3  | 2  | 1  | 5  | 2  | <1 | 82 | <1 | <1 | <1 | <1 | <1 | <1 | 1293 | 920 | 1210 | 351 | 339 |

|           |                 |             | OIL FORMULATION | - OIL CONDITI | ON - OIL CO | NOITANIMATION |      |      |     |    |     |     |     |   |   |      |
|-----------|-----------------|-------------|-----------------|---------------|-------------|---------------|------|------|-----|----|-----|-----|-----|---|---|------|
| SAMPLE    | SAMPLE ID       | FLUID BRAND | FLUID TYPE      | FLUID         | FLUID       | FILTER        | V100 | V40  | VI  | ST | OXI | SUL | NIT | W | F | PFc  |
| DATE      |                 |             |                 | WEIGHT        | CHANGE      | CHANGE        |      |      |     |    |     |     |     |   |   |      |
| 28-Jan-19 | T010-49032-0408 | FUCHS       | CARGO           | 15W-40        | Υ           | Υ             | 13.7 | 97.7 | 141 | 31 | 13  | 20  | 5   | N | N |      |
| 20-Nov-18 | T010-48327-0121 | FUCHS       | CARGO           | 15W-40        | Υ           | Y             | 12.3 | 87.3 | 136 | 27 | 17  | 22  | 8   | N | N | 3.85 |
| 30-Aug-18 | T010-48247-0127 | FUCHS       | CARGO           | 15W-40        | Υ           | Y             | 11.6 | 81.9 | 133 | 30 | 18  | 23  | 9   | N | N | 5.84 |
| 07-May-18 | T010-48130-0118 | FUCHS       | CARGO           | 15W-40        | Υ           | Υ             | 12.2 | 83.7 | 141 | 20 | 16  | 21  | 7   | N | N | 5.41 |

|   |           |                 | OIL    | CLEANLINESS |     |
|---|-----------|-----------------|--------|-------------|-----|
| ſ | SAMPLE    | SAMPLE ID       | FLUID  | FILTER      | PQI |
| ı | DATE      |                 | CHANGE | CHANGE      |     |
|   | 28-Jan-19 | T010-49032-0408 | Υ      | Υ           | 0   |
|   | 20-Nov-18 | T010-48327-0121 | Υ      | Υ           | 3   |
|   | 30-Aug-18 | T010-48247-0127 | Υ      | Y           | 0   |
|   | 07-May-18 | T010-48130-0118 | Υ      | Υ           | 2   |

Ag = Silver, Al = Aluminum, B = Boron, Ca = Calcium, Cd = Cadmium, Cr = Chromium, Cu = Copper, F = Fuel, Fe = Iron, K = Potassium, Mg = Magnesium, Mn = Manganese, Mo = Molybdenum, NIT = Nitration, Na = Sodium, Ni = Nickel, OXI = Oxidation, P = Phosphorus, PQI = Particle Quantifying index, Yb = Lead, ST = Soot, SUL = Sulfation, Si = Silicon, Sn = Tin, Ti = Titanium, V = Vanadium, V100 = Viscosity@100C, V40 = Viscosity@40C, VI = Viscosity@40C,

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# **CONTACT INFORMATION**

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BAIRNSDALE, VIC

AUS 3875

PHONE: 5152 2844

FAX:

Interp By:

Email: workshop@whelansgroup.com.au

Barry Swindells

Monitor

Compartment

**EQUIPMENT** 

CUSTOMER EQUIP NUM: TK45

SERIAL NUMBER: TK45\_WHELANS

MODEL: FFR500

MANUFACTURER: ISUZU

COMPANY NAME: WHELANS GROUP INVESTMENTS PTY LTD

JOB SITE:

AREA: REGION:

SAMPLE INFORMATION

COMPARTMENT NAME: ENGINE TRUCK

COMP SERIAL NUM:

COMPARTMENT MODEL:

LABEL#:

SHOP JOB NUM:

SAMPLE TYPE: OIL

SAMPLE SHIP TIME (days): 7

SAMPLE LOCATION: WORK SHOP

POSSIBLE FUEL DILUTION OCCURING, CONTINUE SAMPLING AT THE RECOMMENDED INTERVAL TO MONITOR. OIL KLMS AND TOTAL KLMS APPEAR INCONSISTENT.

LAB#

T010-49064-0513

|                |                 | WEAR/O          | CONTAMINATION -   | - ADDITIVES/F   | ORMULATION       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |     |      |     |     |
|----------------|-----------------|-----------------|-------------------|-----------------|------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|-----|------|-----|-----|
| SAMPLE<br>DATE | SAMPLE ID       | METER<br>( KM ) | METER ON<br>FLUID | FLUID<br>CHANGE | FILTER<br>CHANGE | Cu | Fe | Cr | Al | Pb | Sn | Si | Na | К  | Мо | Ni | Ag | Ti | ٧  | Mn | Cd | Ca   | Р   | Zn   | Mg  | В   |
| 26-Feb-19      | T010-49064-0513 | 593533          | 10000             | Υ               | Υ                | <1 | 13 | 2  | 4  | 2  | 3  | 6  | 3  | <1 | 90 | <1 | <1 | <1 | <1 | <1 | <1 | 1315 | 901 | 1110 | 396 | 370 |
| 28-Jan-19      | T010-49032-0408 | 522000          | 10000             | Υ               | Υ                | <1 | 10 | <1 | 4  | <1 | 3  | 7  | 3  | <1 | 82 | <1 | <1 | <1 | <1 | <1 | <1 | 1318 | 918 | 1148 | 380 | 379 |
| 20-Nov-18      | T010-48327-0121 | 581096          | 15000             | Υ               | Υ                | <1 | 15 | 2  | 4  | 1  | 2  | 6  | 1  | 1  | 80 | <1 | <1 | <1 | <1 | <1 | <1 | 1236 | 891 | 1127 | 360 | 338 |
| 30-Aug-18      | T010-48247-0127 | 571357          | 15357             | Υ               | Y                | <1 | 15 | 3  | 3  | 1  | 2  | 6  | 2  | <1 | 74 | <1 | <1 | <1 | <1 | <1 | <1 | 1160 | 845 | 1043 | 313 | 287 |

|           |                 |             | OIL FORMULATION | - OIL CONDITI | ON - OIL COI | NOITAMINATION |      |      |     |    |     |     |     |   |   |      |
|-----------|-----------------|-------------|-----------------|---------------|--------------|---------------|------|------|-----|----|-----|-----|-----|---|---|------|
| SAMPLE    | SAMPLE ID       | FLUID BRAND | FLUID TYPE      | FLUID         | FLUID        | FILTER        | V100 | V40  | VI  | ST | OXI | SUL | NIT | W | F | PFc  |
| DATE      |                 |             |                 | WEIGHT        | CHANGE       | CHANGE        |      |      |     |    |     |     |     |   |   |      |
| 26-Feb-19 | T010-49064-0513 | FUCHS       | CARGO           | 15W-40        | Y            | Υ             | 12.0 | 83.2 | 138 | 26 | 16  | 22  | 7   | N | N | 5.13 |
| 28-Jan-19 | T010-49032-0408 | FUCHS       | CARGO           | 15W-40        | Y            | Y             | 13.7 | 97.7 | 141 | 31 | 13  | 20  | 5   | N | N |      |
| 20-Nov-18 | T010-48327-0121 | FUCHS       | CARGO           | 15W-40        | Υ            | Y             | 12.3 | 87.3 | 136 | 27 | 17  | 22  | 8   | N | N | 3.85 |
| 30-Aug-18 | T010-48247-0127 | FUCHS       | CARGO           | 15W-40        | Y            | Y             | 11.6 | 81.9 | 133 | 30 | 18  | 23  | 9   | N | N | 5.84 |

|           |                 | OIL    | CLEANLINESS |     |
|-----------|-----------------|--------|-------------|-----|
| SAMPLE    | SAMPLE ID       | FLUID  | FILTER      | PQI |
| DATE      |                 | CHANGE | CHANGE      |     |
| 26-Feb-19 | T010-49064-0513 | Υ      | Υ           | 3   |
| 28-Jan-19 | T010-49032-0408 | Y      | Y           | 0   |
| 20-Nov-18 | T010-48327-0121 | Y      | Y           | 3   |
| 30-Aug-18 | T010-48247-0127 | Υ      | Υ           | 0   |

Ag = Silver, Al = Aluminum, B = Boron, Ca = Calcium, Cd = Cadmium, Cr = Chromium, Cu = Copper, F = Fuel, Fe = Iron, K = Potassium, Mn = Manganese, Mo = Molybdenum, NIT = Nickel, OXI = Oxidation, P = Phosphorus, PFC = Percent Fuel Content, PQI = Particle Quantifying index, Pb = Lead, ST = Soot, SUL = Sulfation, Si = Silicon, Sn = Tin, Ti = Titanium, V = Vanadium, V100 = Viscosity@100C, V40 = Viscosity@40C, VI = Viscosity

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#### **ENGINE TRUCK**

# T010-54326-0516

SAMPLE SHIP TIME (days): 7

#### WHELANS GROUP INVESTMENTS PTY LTD

LOCATION: WORKSHOP RECEIVED DATE: 21-Nov-24 **EQUIP NUM: TK45** 

# ISUZU FFR500



# **Monitor Compartment**

SERIAL NUMBER: TK45\_WHELANS

PREVIOUS SAMPLE

OIL CONDITION SATISFACTORY, CONTINUE

For additional sample history, go to:

Interpreted On: 27-Nov-24

SAMPLING

S.O.S WEB

THE

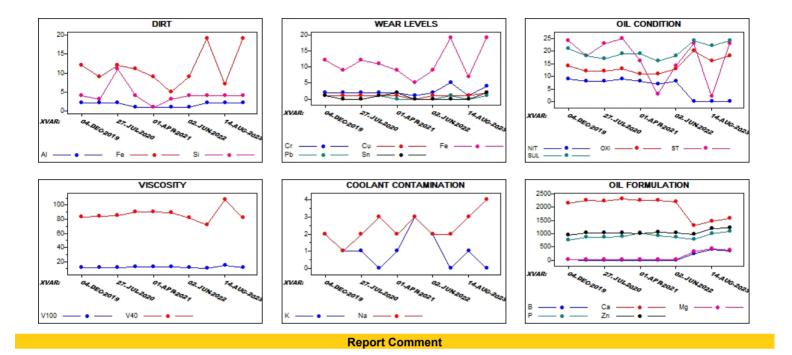
ΑТ

Interp By: Tom Cokalis

LOW OIL VISCOSITY AND FUEL TEST INDICATES A MODERATE LEVEL OF FUEL DILUTION. MONITOR IDLE TIME. MONITOR COMPARTMENT FOR RISING OIL LEVEL. ALL OTHER TEST RESULTS APPEAR ACCEPTABLE. WE WILL MONITOR ACTIVITY OVER THE NEXT FEW SAMPLES. AFTER INSPECTION RESAMPLE AT THE NEXT SERVICE INTERVAL TO RE-EVALUATE CONDITION .

|                   |                     | SAMPLE INFORMA      | TION                |                 |       |                    |
|-------------------|---------------------|---------------------|---------------------|-----------------|-------|--------------------|
|                   | 1                   | -                   | $\triangle$         | $\triangle$     | OIL   | CONDITION          |
| Sampled Date      | 14-Nov-24           | 14-Aug-23           | 10-Aug-23           | 02-Jun-22       | RECOM | MENDED INTERVAL.   |
| Sample Id         | T010-54326-0516     | T010-53230-0235     | T010-53228-0604     | T010-52160-0414 |       | For addit          |
| Lab Date          | 21-Nov-24           | 18-Aug-23           | 16-Aug-23           | 09-Jun-22       |       |                    |
| Meter [Km]        | 695092              | 533731              | 685589              | 675000          |       |                    |
| Comp Meter [Km]   | 695092              |                     |                     |                 |       |                    |
| Meter On Fluid    | 10000               | 15000               | 10000               | 10000           | VISCO | DSITY (CENTISTOKE  |
| Fluid Brand       | VALVOLINE           | VALVOLINE           | VALVOLINE           | FUCHS           | V100  | Viscosity at 100 C |
| Fluid Weight      | 15W-40              | 15W-40              | 15W-40              | 15W-40          |       |                    |
| Fluid Type        | all fleet plus e900 | all fleet plus e900 | all fleet plus e900 | CARGO           |       |                    |
| Fluid Change      | Υ                   | Υ                   | Υ                   | Υ               | VISCO | OSITY (CENTISTOKE  |
| Filter Change     | Υ                   | Υ                   | Υ                   | Υ               | V40   | Viscosity at 40 C  |
| Make Up Fluid []  | 12.5                |                     |                     |                 | V40   | VISCOSILY AL 40 C  |
| Total Fluid Added | 12.5                | 0                   | 0                   | 0               |       |                    |
|                   |                     |                     |                     |                 |       |                    |

| Lab Da    | ite         | 21-Nov-24          |           | 3-Aug-23     | 16-Aug-23           | 09-Jun    |      | C                       | ONDITION / C | ONTAMINATIO | ION         |            |
|-----------|-------------|--------------------|-----------|--------------|---------------------|-----------|------|-------------------------|--------------|-------------|-------------|------------|
| Meter [   | _           | 695092             | į         | 533731       | 685589              | 67500     | 00   |                         | 14-Nov-24    | 14-Aug-23   | 10-Aug-23   | 02-Jun-22  |
| Comp I    | Meter [Km]  | 695092             |           |              |                     |           | VICE | COSITY (CENTISTOKES) A  |              | 14 / lug 23 | 10 / lug 23 | 02 Juli 22 |
| Meter (   | On Fluid    | 10000              |           | 15000        | 10000               | 1000      |      | •                       |              | 14.16       | 10.83       | 11.57      |
| Fluid B   |             | VALVOLINE          |           | LVOLINE      | VALVOLINE           | FUCH      |      | Viscosity at 100 C      | 11.86        | 14.10       | 10.65       | 11.57      |
| Fluid W   |             | 15W-40             |           | .5W-40       | 15W-40              | 15W-4     |      |                         |              |             |             |            |
| Fluid T   | ype         | all fleet plus e90 | 0 all fle | et plus e900 | all fleet plus e900 |           | 0    |                         |              |             |             |            |
| Fluid C   | hange       | Υ                  |           | Υ            | Υ                   | Υ         | VISC | COSITY (CENTISTOKES) A  | STM D445     |             |             |            |
| Filter C  | •           | Υ                  |           | Υ            | Υ                   | Υ         | V40  | Viscosity at 40 C       | 82.26        | 107.2       | 71.63       | 81.71      |
|           | Jp Fluid [] | 12.5               |           |              |                     |           |      |                         |              |             |             |            |
| Total Flo | uid Added   | 12.5               |           | 0            | 0                   | 0         |      |                         |              |             |             |            |
|           |             |                    |           |              |                     |           | VISC | COSITY INDEX            |              |             |             |            |
|           |             |                    | WEADIE    | VELS / ADD   | ITIVE6              |           | VI   | Viscosity Index         | 138          | 135         | 139         | 134        |
|           |             |                    |           |              |                     | 02-Jun-22 |      | ,                       |              |             |             |            |
|           |             |                    | 14-Nov-24 | 14-Aug-23    | 10-Aug-23           | U2-Jun-22 |      |                         |              |             |             |            |
|           |             | LYSIS (PPM) AST    |           |              |                     | _         |      |                         |              |             |             |            |
| Cu        | Copper      |                    | 2         | 1            | 1                   | 1         |      | RARED (UFM) ASTM E2412  | 23           | 2           | 23          | 14         |
| Fe        | Iron        |                    | 19        | 7            | 19                  | 9         | ST   | Soot                    |              |             |             |            |
| Cr        | Chromium    | 1                  | 4         | 1            | 5                   | 2         | OXI  | Oxidation               | 18           | 16          | 20          | 13         |
| Al        | Aluminum    |                    | 2         | 2            | 2                   | 1         | SUL  | Sulfur Products         | 24           | 22          | 24          | 18         |
| Pb        | Lead        |                    | 1         | 0            | 1                   | 0         | NIT  | Nitration               | 0            | 0           | 0           | 8          |
| Sn        | Tin         |                    | 2         | 0            | 0                   | 0         |      |                         |              |             |             |            |
| Si        | Silicon     |                    | 4         | 4            | 4                   | 4         | WAT  | TER - HOTPLATE          |              |             |             |            |
| Na        | Sodium      |                    | 4         | 3            | 2                   | 2         | w    | Water                   | N            | N           | N           | N          |
| K         | Potassium   | 1                  | 0         | 1            | 0                   | 2         |      |                         |              |             |             |            |
| Мо        | Molybdeni   | um                 | 78        | 88           | 61                  | 0         |      |                         |              |             |             |            |
| Ni        | Nickel      |                    | 1         | 1            | 1                   | 1         | FUE  | L DILUTION (SCREEN)     |              |             |             |            |
| Ag        | Silver      |                    | 0         | 0            | 0                   | 0         | F    | Fuel                    | Р            | N           | Р           | Р          |
| Ti        | Titanium    |                    | 0         | 0            | 0                   | 0         |      |                         |              |             |             |            |
| V         | Vanadium    |                    | 0         | 0            | 0                   | 0         |      |                         |              |             |             |            |
| Mn        | Manganes    | se                 | 1         | 0            | 0                   | 0         | FUE  | L DILUTION (%) ASTM D75 | 93           |             |             |            |
| Cd        | Cadmium     |                    | 0         | 0            | 0                   | 0         | PFc  | Percent Fuel            | 6.89         | <2          | 6.12        | 6.29       |
| Са        | Calcium     |                    | 1565      | 1473         | 1298                | 2211      |      |                         |              |             |             |            |
| Р         | Phosphoru   | us                 | 1089      | 988          | 787                 | 871       |      |                         | 01.541       |             |             |            |
| Zn        | Zinc        |                    | 1230      | 1186         | 972                 | 1027      |      |                         |              | ILINESS     | 10 4 22     | 02 1 22    |
| Mg        | Magnesiur   | m                  | 385       | 433          | 321                 | 9         | FFF  | ROUS DEBRIS             | 14-Nov-24    | 14-Aug-23   | 10-Aug-23   | 02-Jun-22  |
| Ва        | Barium      |                    | 0         | 0            | 0                   | 0         | PQI  | PQ Index                | 0            | 0           | 0           | 0          |
| В         | Boron       |                    | 334       | 405          | 231                 | 1         | PQI  | ry index                | Ŭ            | Ü           | Ü           | •          |
|           |             |                    |           |              |                     |           |      |                         |              |             |             |            |



Our sample reports has been updated! For more information on the new report, go to - https://www.youtube.com/watch?v=4h8bREJVUrs



Λ

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#### **ENGINE TRUCK**

**T010-53228-0604** SAMPLE SHIP TIME (days) : 6

WHELANS GROUP INVESTMENTS PTY LTD

RECEIVED DATE: 16-Aug-23

#### EQUIP NUM: TK45

#### SERIAL NUMBER: TK45\_WHELANS

PREVIOUS SAMPLE

## ISUZU FFR500



SAMPLE INFORMATION

Λ

n

1298

787

972

321

0

231

Cd

Zn

Mg

Ва

В

Cadmium

Phosphorus

Magnesium

Zinc

Barium

Boron

0

2211

871

1027

9

0

n

2266

906

1061

10

0

2

2252

1018

1012

7

0

1

# **Action Required**

Interp By: Tom Cokalis
Interpreted On: 18-Aug-23

ENSURE CORRECT COMPARTMENT

LOW OIL VISCOSITY AND FUEL TEST INDICATES A MODERATELY HIGH LEVEL OF FUEL DILUTION. CHECK WITH ENGINE MANUFACTURER FOR THE MAXIMUM ALLOWABLE FUEL DILUTION PERCENTAGE. IRON IS SLIGHTLY HIGH. CHROME LEVELS ARE ELEVATED. CHECK FILTER MEDIUM AND SCREENS FOR WEAR MATERIAL AND CONTAMINATION. INVESTIGATE THE CAUSE OF FUEL DILUTION THEN RESAMPLE AT THE NEXT RECOMMENDED SERVICE INTERVAL.

TEST INDICATE FUEL

FUEL DILUTION (%) ASTM D7593

Percent Fuel

**FERROUS DEBRIS** 

PO Index

POI

|         |              |                     | _        |           |                 | •               |         |                    |           |                    |          |        |            |         |      |
|---------|--------------|---------------------|----------|-----------|-----------------|-----------------|---------|--------------------|-----------|--------------------|----------|--------|------------|---------|------|
| Sample  | ed Date      | 10-Aug-23           | 02       | Jun-22    | 16-Jul-21       | 01-Apr-21       | CONDITI |                    |           | COMPARTMENT        | OIL      | LEVEL, | RESAMPLE   | AT      | HALF |
| Sample  | e Id         | T010-53228-0604     | T010-5   | 2160-0414 | T010-51201-0324 | T010-51105-0232 | THE REC | OMMENDED INTERVAL  | .L.       |                    |          |        |            |         |      |
| Lab Da  | ate          | 16-Aug-23           | 09       | Jun-22    | 20-Jul-21       | 15-Apr-21       |         | For additio        | onal samp | le history, go to: |          |        | my.cat.com |         |      |
| Meter [ | [Hr]         | 685589              | 67       | 5000      | 665000          | 665000          |         |                    | COND      | ITION / CON        | TAMIN    | ΙΔΤΙΩΝ |            |         |      |
| Meter ( | On Fluid     | 10000               | 10       | 0000      | 10000           | 10000           |         |                    |           |                    | 02-Jun-2 |        | .6-Jul-21  | 01-Apr  | -21  |
| Fluid B | Brand        | VALVOLINE           | Fl       | JCHS      | FUCHS           | FUCHS           | V/ICCO  | OITY (OFNITIOTOLES |           |                    | oz jan z |        | .0 301 21  | OI /tpi |      |
| Fluid W | Veight       | 15W-40              | 15       | W-40      | 15W-40          | 15W-40          |         | SITY (CENTISTOKES  | •         | 10.83              | 11.57    |        | 12.4       | 12.4    |      |
| Fluid T | • •          | all fleet plus e900 | CA       | ARGO      | CARGO           | CARGO           | V100    | Viscosity at 100 C |           | 10.65              | 11.57    |        | 12.4       | 12.4    |      |
| Fluid C | Change       | Υ                   |          | Υ         | Υ               | Υ               |         |                    |           |                    |          |        |            |         |      |
|         | Change       | Υ                   |          | Υ         | Υ               | Υ               |         |                    |           |                    |          |        |            |         |      |
| Make l  | Up Fluid [L] |                     |          |           | 0               | 0               | VISCO   | SITY (CENTISTOKES  | S) ASTM ( | D445               |          |        |            |         |      |
| Total F | luid Added   | 0                   |          | 0         | 0               | 0               | V40     | Viscosity at 40 C  |           | 71.63              | 81.71    |        | 89.6       | 90.3    |      |
|         |              |                     |          |           |                 |                 |         |                    |           |                    |          |        |            |         |      |
|         |              |                     |          |           |                 |                 |         |                    |           |                    |          |        |            |         |      |
|         |              | v                   | /EAR LEV | ELS / ADD | ITIVES          |                 | VISCO   | SITY INDEX         |           |                    |          |        |            |         |      |
|         |              |                     | -Aug-23  | 02-Jun-22 |                 | 01-Apr-21       | VI      | Viscosity Index    |           | 139                | 134      |        | 133        | 132     |      |
| FLEMI   | ENTAL ANAI   | YSIS (PPM) ASTM     |          |           |                 | -               |         |                    |           |                    |          |        |            |         |      |
| Cu      | Copper       |                     | 1        | 1         | 0               | 1               |         |                    |           |                    |          |        |            |         |      |
| Fe      | Iron         |                     | 19       | 9         | 5               | 9               | INFRA   | RED (UFM) ASTM E2  | 2412      |                    |          |        |            |         |      |
| Cr      | Chromium     |                     | 5        | 2         | 1               | 2               | ST      | Soot               |           | 23                 | 14       |        | 3          | 16      |      |
| Al      | Aluminum     |                     | 2        | 1         | 1               | 1               | OXI     | Oxidation          |           | 20                 | 13       |        | 11         | 11      |      |
| Pb      | Lead         |                     | 1        | 0         | 0               | 0               | SUL     | Sulfur Products    |           | 24                 | 18       |        | 16         | 19      |      |
| Sn      | Tin          |                     | 0        | 0         | 0               | 2               | NIT     | Nitration          |           | 0                  | 8        |        | 7          | 8       |      |
| Si      | Silicon      |                     | 4        | 4         | 3               | 1               |         |                    |           |                    |          |        |            |         |      |
| Na      | Sodium       |                     | 2        | 2         | 3               | 2               | WATE    | R - HOTPLATE       |           |                    |          |        |            |         |      |
| K       | Potassium    | 1                   | 0        | 2         | 3               | 1               | W       | Water              |           | N                  | N        |        | N          | N       |      |
| Mo      | Molybdeni    |                     | 61       | 0         | 1               | 1               |         |                    |           |                    |          |        |            |         |      |
| Ni      | Nickel       | um                  | 1        | 1         | 0               | 0               |         |                    |           |                    |          |        |            |         |      |
| Ag      | Silver       |                     | 0        | 0         | 0               | 0               | FUEL I  | DILUTION (SCREEN)  |           |                    |          |        |            |         |      |
| Ti      | Titanium     |                     | 0        | 0         | 0               | 0               | F       | Fuel               |           | Р                  | Р        |        | N          | N       |      |
| V       | Vanadium     |                     | 0        | 0         | 0               | 0               |         |                    |           |                    |          |        |            |         |      |
| v<br>Mn | Manganes     |                     | 0        | 0         | 0               | 0               |         |                    |           |                    |          |        |            |         |      |
| IVITI   | wanganes     | E                   | •        | J         | •               | •               |         |                    |           |                    |          |        |            |         |      |

4.05

16-Jul-21

6

4.50

01-Apr-21

6

6.29

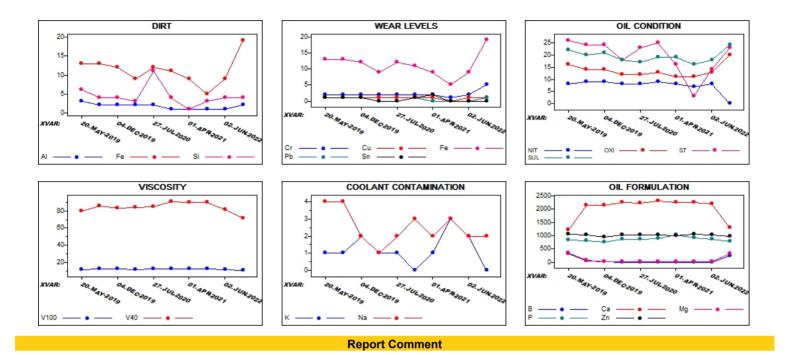
02-Jun-22

0

**CLEANLINESS** 

6.12

10-Aug-23



Notice: This analysis is intended as an aid in predicting mechanical wear. No guarantee, expressed or implied, is made against failure of this piece of equipment or component

Our sample reports has been updated! For more information on the new report, go to - https://www.youtube.com/watch?v=4h8bREJVUrs



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Web: www.williamadams.com.au Email: SOSManager@wadams.com.au



#### **ENGINE TRUCK**

T010-53230-0235 SAMPLE SHIP TIME (days) : 4

WHELANS GROUP INVESTMENTS PTY LTD

LOCATION: WORKSHOP RECEIVED DATE: 18-Aug-23

# **EQUIP NUM: TK45**





## No Action Required

SERIAL NUMBER: TK45\_WHELANS

Interp By: Tom Cokalis Interpreted On: 21-Aug-23

OIL CONDITION SATISFACTORY, CONTINUE SAMPLING AT THE RECOMMENDED INTERVAL.

|                   |                     | SAMPLE INFORMA      | TION            |                 |
|-------------------|---------------------|---------------------|-----------------|-----------------|
|                   |                     | $\triangle$         | $\triangle$     |                 |
| Sampled Date      | 14-Aug-23           | 10-Aug-23           | 02-Jun-22       | 16-Jul-21       |
| Sample Id         | T010-53230-0235     | T010-53228-0604     | T010-52160-0414 | T010-51201-0324 |
| Lab Date          | 18-Aug-23           | 16-Aug-23           | 09-Jun-22       | 20-Jul-21       |
| Meter [Hr]        | 533731              | 685589              | 675000          | 665000          |
| Meter On Fluid    | 15000               | 10000               | 10000           | 10000           |
| Fluid Brand       | VALVOLINE           | VALVOLINE           | FUCHS           | FUCHS           |
| Fluid Weight      | 15W-40              | 15W-40              | 15W-40          | 15W-40          |
| Fluid Type        | all fleet plus e900 | all fleet plus e900 | CARGO           | CARGO           |
| Fluid Change      | Υ                   | Υ                   | Υ               | Υ               |
| Filter Change     | Υ                   | Υ                   | Υ               | Υ               |
| Make Up Fluid [L] |                     |                     |                 | 0               |
| Total Fluid Added | 0                   | 0                   | 0               | 0               |

|       |      |       |           |       | PRE    | :VIO   | JS   | SAMPLE    | =      |        |       |        |      |       |
|-------|------|-------|-----------|-------|--------|--------|------|-----------|--------|--------|-------|--------|------|-------|
| _OW   | OIL  | VIS   | COSITY    | AND   | FUEL   | TEST   | П    | NDICATES  | Α      | MODER  | RATEL | Y HIG  | Н    | LEVEL |
| OF    | FUEL | [     | DILUTION. |       | CHECK  | WIT    | ГН   | ENGINE    | MA     | NUFAC  | TURE  | R F    | OR   | THE   |
| MAXIM | 1UM  | ALLO  | OWABLE    | FUEL  | DILUT  | ION    | PEF  | RCENTAGE. |        | IRON   | IS    | SLIGHT | ΓLY  | HIGH  |
|       | CHRO | ME    | LEVELS    | ARE   | ELEVA  | TED.   |      | CHECK     | FILTER | R MEI  | DIUM  | AND    | SCI  | REENS |
| FOR   | WEA  | R     | MATERIAL  | . ANI | 0 00   | IIMATI | ITAV | ON.       | INVES  | TIGATE | TH    | E CA   | AUSE | OF    |
| FUEL  | DILU | JTIOI | N THEN    | RES   | SAMPLE |        | AT   | THE       | NEXT   | REC    | OMME  | NDED   | SE   | RVICE |
| NTER' | VAL. |       |           |       |        |        |      |           |        |        |       |        |      |       |

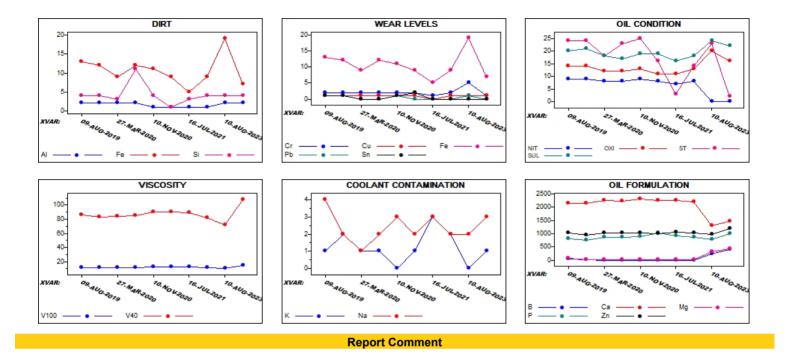
For additional sample history, go to: my.cat.com **CONDITION / CONTAMINATION** 02-Jun-22 16-Jul-21 14-Aug-23 10-Aug-23 VISCOSITY (CENTISTOKES) ASTM D445 10.83 11.57 12.4 14.16 V100 Viscosity at 100 C

VISCOSITY (CENTISTOKES) ASTM D445

|      |                      | WEAR LE         | VELS / ADDI    | TIVES     |           |  |
|------|----------------------|-----------------|----------------|-----------|-----------|--|
|      |                      | 14-Aug-23       | 10-Aug-23      | 02-Jun-22 | 16-Jul-21 |  |
| ELEM | ENTAL ANALYSIS (PPM) | ASTM D5185 [OIL | ] / ASTM D6130 | [COOLANT] |           |  |
| Cu   | Copper               | 1               | 1              | 1         | 0         |  |
| Fe   | Iron                 | 7               | 19             | 9         | 5         |  |
| Cr   | Chromium             | 1               | 5              | 2         | 1         |  |
| Al   | Aluminum             | 2               | 2              | 1         | 1         |  |
| Pb   | Lead                 | 0               | 1              | 0         | 0         |  |
| Sn   | Tin                  | 0               | 0              | 0         | 0         |  |
| Si   | Silicon              | 4               | 4              | 4         | 3         |  |
| Na   | Sodium               | 3               | 2              | 2         | 3         |  |
| K    | Potassium            | 1               | 0              | 2         | 3         |  |
| Мо   | Molybdenum           | 88              | 61             | 0         | 1         |  |
| Ni   | Nickel               | 1               | 1              | 1         | 0         |  |
| Ag   | Silver               | 0               | 0              | 0         | 0         |  |
| Ti   | Titanium             | 0               | 0              | 0         | 0         |  |
| V    | Vanadium             | 0               | 0              | 0         | 0         |  |
| Mn   | Manganese            | 0               | 0              | 0         | 0         |  |
| Cd   | Cadmium              | 0               | 0              | 0         | 0         |  |
| Са   | Calcium              | 1473            | 1298           | 2211      | 2266      |  |
| Р    | Phosphorus           | 988             | 787            | 871       | 906       |  |
| Zn   | Zinc                 | 1186            | 972            | 1027      | 1061      |  |
| Mg   | Magnesium            | 433             | 321            | 9         | 10        |  |
| Ва   | Barium               | 0               | 0              | 0         | 0         |  |
| В    | Boron                | 405             | 231            | 1         | 2         |  |

| V40   | Viscosity at 40 C     | 107.2 | 71.63   | 81.71 | 89.6 |
|-------|-----------------------|-------|---------|-------|------|
|       |                       |       |         |       |      |
| VISCO | OSITY INDEX           |       |         |       |      |
| VI    | Viscosity Index       | 135   | 139     | 134   | 133  |
| INFR/ | ARED (UFM) ASTM E241: | 2     |         |       |      |
| ST    | Soot                  | 2     | 23      | 14    | 3    |
| OXI   | Oxidation             | 16    | 20      | 13    | 11   |
| SUL   | Sulfur Products       | 22    | 24      | 18    | 16   |
| NIT   | Nitration             | 0     | 0       | 8     | 7    |
| WATE  | R - HOTPLATE          |       |         |       |      |
| W     | Water                 | N     | N       | N     | N    |
|       |                       |       |         |       |      |
| FUEL  | DILUTION (SCREEN)     |       |         |       |      |
| F     | Fuel                  | N     | Р       | Р     | N    |
| FUEL  | DILUTION (%) ASTM D7  | 593   |         |       |      |
| PFc   | Percent Fuel          | <2    | 6.12    | 6.29  | 4.05 |
|       |                       | CLEAN | ILINESS |       |      |





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Our sample reports has been updated! For more information on the new report, go to - https://www.youtube.com/watch?v=4h8bREJVUrs

# **William Adams**



# WILLIAM ADAMS PTY. LTD - William Adams Pty. Ltd. 17-55 Nantilla Road Clayton North, Vic 3168 Australia

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**ENGINE TRUCK** 

T010-51105-0232 LABEL#:

SHOP JOB NUM:

WHELANS GROUP INVESTMENTS PTY LTD

SAMPLE SHIP TIME (days): 14

**EQUIP NUM: TK45** 

SERIAL NUMBER: TK45\_WHELANS

ISUZU FFR500



No Action Required

Interp By: Tom Cokalis Interpreted On: 28-Apr-21

OIL CONDITION SATISFACTORY, CONTINUE SAMPLING AT THE RECOMMENDED INTERVAL.

|                   |                 | SAMPLE INFORMA  | TION            |                 |
|-------------------|-----------------|-----------------|-----------------|-----------------|
|                   |                 |                 | $\triangle$     | $\triangle$     |
| Sampled Date      | 01-Apr-21       | 10-Nov-20       | 27-Jul-20       | 27-Mar-20       |
| Sample Id         | T010-51105-0232 | T010-50318-0513 | T010-50211-0621 | T010-50098-0316 |
| Lab Date          | 15-Apr-21       | 13-Nov-20       | 29-Jul-20       | 07-Apr-20       |
| Meter [Hr]        | 665000          | 655000          | 645000          | 636251          |
| Meter On Fluid    | 10000           | 10000           | 10000           | 10000           |
| Fluid Brand       | FUCHS           | FUCHS           | FUCHS           | FUCHS           |
| Fluid Weight      | 15W-40          | 15W-40          | 15W-40          | 15W-40          |
| Fluid Type        | CARGO           | CARGO           | CARGO           | CARGO           |
| Fluid Change      | Υ               | Υ               | Υ               | Υ               |
| Filter Change     | Υ               | Υ               | Υ               | Υ               |
| Make Up Fluid [L] | 0               | 0               | 0               |                 |

|       |                   | PREVIOUS                   | S SAMPLE   |            |       |       |
|-------|-------------------|----------------------------|------------|------------|-------|-------|
| OIL   | CONDITION         | SATISFACTORY,              | CONTINUE   | SAMPLING   | ΑТ    | THE   |
| RECOM | MENDED INTERVAL.  |                            |            |            |       |       |
|       | For add           | ditional sample history, g | jo to:     | my.cat.com |       |       |
|       |                   | CONDITION / (              | CONTAMINAT | ION        |       |       |
|       |                   | 01-Apr-21                  | 10-Nov-20  | 27-Jul-20  | 27-Ma | ar-20 |
| VISC  | OSITY (CENTISTO   | KES) ASTM D445             |            |            |       |       |
| V100  | Viscosity at 100  | C 12.4                     | 12.3       | 11.8       | 11.   | 7     |
| VISC  | OSITY (CENTISTO   | KES) ASTM D445             |            |            |       |       |
| V40   | Viscosity at 40 C | 90.3                       | 90.4       | 84.7       | 84.:  | 1     |

|      |                     | WEAR LE            | VELS / ADDI    | TIVES     |           |  |
|------|---------------------|--------------------|----------------|-----------|-----------|--|
|      |                     | 01-Apr-21          | 10-Nov-20      | 27-Jul-20 | 27-Mar-20 |  |
| ELEM | IENTAL ANALYSIS (PP | M) ASTM D5185 [OIL | ] / ASTM D6130 | [COOLANT] |           |  |
| Cu   | Copper              | 1                  | 1              | 1         | 1         |  |
| Fe   | Iron                | 9                  | 11             | 12        | 9         |  |
| Cr   | Chromium            | 2                  | 2              | 2         | 2         |  |
| Al   | Aluminum            | 1                  | 1              | 2         | 2         |  |
| Pb   | Lead                | 0                  | 1              | 0         | 0         |  |
| Sn   | Tin                 | 2                  | 1              | 0         | 0         |  |
| Si   | Silicon             | 1                  | 4              | 11        | 3         |  |
| Na   | Sodium              | 2                  | 3              | 2         | 1         |  |
| K    | Potassium           | 1                  | 0              | 1         | 1         |  |
| Мо   | Molybdenum          | 1                  | 1              | 0         | 1         |  |
| Ni   | Nickel              | 0                  | 0              | 0         | 0         |  |
| Ag   | Silver              | 0                  | 0              | 0         | 0         |  |
| Ti   | Titanium            | 0                  | 0              | 0         | 0         |  |
| V    | Vanadium            | 0                  | 0              | 0         | 0         |  |
| Mn   | Manganese           | 0                  | 0              | 0         | 0         |  |
| Cd   | Cadmium             | 0                  | 0              | 0         | 0         |  |
| Ca   | Calcium             | 2252               | 2297           | 2215      | 2250      |  |
| Р    | Phosphorus          | 1018               | 887            | 856       | 860       |  |
| Zn   | Zinc                | 1012               | 1035           | 1028      | 1027      |  |
| Mg   | Magnesium           | 7                  | 12             | 11        | 11        |  |
| Ва   | Barium              | 0                  | 0              | 0         | 0         |  |
| В    | Boron               | 1                  | 2              | 2         | 1         |  |

| VISC  | OSITY INDEX          |           |           |           |           |
|-------|----------------------|-----------|-----------|-----------|-----------|
| VI    | Viscosity Index      | 132       | 130       | 132       | 131       |
| INFR/ | ARED (UFM) ASTM E241 | 2         |           |           |           |
| ST    | Soot                 | 16        | 25        | 23        | 18        |
| OXI   | Oxidation            | 11        | 13        | 12        | 12        |
| SUL   | Sulfur Products      | 19        | 19        | 17        | 18        |
| NIT   | Nitration            | 8         | 9         | 8         | 8         |
|       |                      |           |           |           |           |
| WATE  | R - HOTPLATE         |           |           |           |           |
| W     | Water                | N         | N         | N         | N         |
| CIICI | DILUTION (SCREEN)    |           |           |           |           |
| F     | Fuel                 | N         | N         | P         | P         |
| г     | ruei                 | .,        |           | ·         | ·         |
| FUEL  | DILUTION (%) ASTM D7 | 593       |           |           |           |
| PFc   | Percent Fuel         | 4.50      | 4.88      | 6.57      | 6.01      |
|       |                      |           |           |           |           |
|       |                      | CLEAN     | LINESS    |           |           |
|       |                      | 01-Apr-21 | 10-Nov-20 | 27-Jul-20 | 27-Mar-20 |
| FERR  | ROUS DEBRIS          |           |           |           |           |
| PQI   | PQ Index             | 6         | 6         | 6         | 5         |

Page 1 of 2

Our sample reports has been updated! For more information on the new report, go to - https://www.youtube.com/watch?v=4h8bREJVUrs



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CONTINUE

VISCOSITY INDEX

PQ Index

SAMPLING



#### **ENGINE TRUCK**

T010-51201-0324 SAMPLE SHIP TIME (days) : 4

WHELANS GROUP INVESTMENTS PTY LTD

RECEIVED DATE: 20-Jul-21 BRANCH REC DT: 20-Jul-21

# **EQUIP NUM: TK45**

**FUEL** 

# SERIAL NUMBER: TK45\_WHELANS

ISUZU FFR500



**Monitor Compartment** 

DILUTION

OCCURING,

Interp By: Barry Swindells

Interpreted On: 21-Jul-21

RECOMMENDED INTERVAL

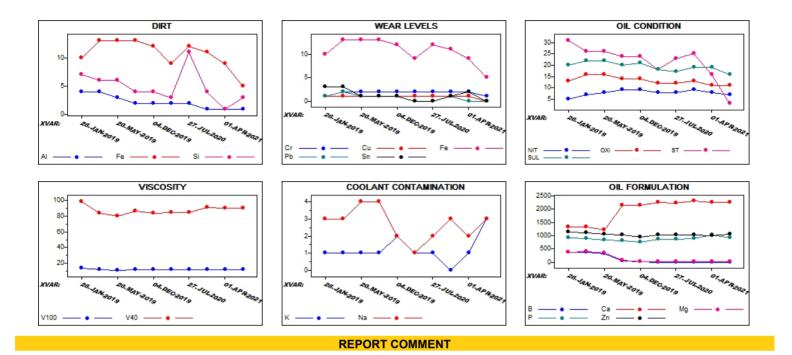
POSSIBLE MONITOR.

|                   | ;               | SAMPLE INFORMA  | TION            |                 |
|-------------------|-----------------|-----------------|-----------------|-----------------|
|                   | 1               |                 |                 | $\triangle$     |
| Sampled Date      | 16-Jul-21       | 01-Apr-21       | 10-Nov-20       | 27-Jul-20       |
| Sample Id         | T010-51201-0324 | T010-51105-0232 | T010-50318-0513 | T010-50211-0621 |
| Lab Date          | 20-Jul-21       | 15-Apr-21       | 13-Nov-20       | 29-Jul-20       |
| Meter [Hr]        | 665000          | 665000          | 655000          | 645000          |
| Meter On Fluid    | 10000           | 10000           | 10000           | 10000           |
| Fluid Brand       | FUCHS           | FUCHS           | FUCHS           | FUCHS           |
| Fluid Weight      | 15W-40          | 15W-40          | 15W-40          | 15W-40          |
| Fluid Type        | CARGO           | CARGO           | CARGO           | CARGO           |
| Fluid Change      | Υ               | Υ               | Υ               | Υ               |
| Filter Change     | Υ               | Υ               | Υ               | Υ               |
| Make Up Fluid [L] | 0               | 0               | 0               | 0               |

|       |                   | PREVIOU                    | S SAMPLE   |            |       |      |
|-------|-------------------|----------------------------|------------|------------|-------|------|
| DIL   | CONDITION         | SATISFACTORY,              | CONTINUE   | SAMPLING   | ΑТ    | THE  |
| RECOM | MENDED INTERVAL.  |                            |            |            |       |      |
|       | For add           | ditional sample history, g | go to:     | my.cat.com |       |      |
|       |                   | CONDITION /                | CONTAMINAT | ION        |       |      |
|       |                   | 16-Jul-21                  | 01-Apr-21  | 10-Nov-20  | 27-Ju | I-20 |
| VISC  | OSITY (CENTISTO   | KES) ASTM D445             |            |            |       |      |
| V100  | Viscosity at 100  | C 12.4                     | 12.4       | 12.3       | 11.8  | 3    |
| VISC  | OSITY (CENTISTO   | KES) ASTM D445             |            |            |       |      |
| V40   | Viscosity at 40 C | ; 89.6                     | 90.3       | 90.4       | 84.   | 7    |

|       |                        | WEAR LE        | VELS / ADDIT    | TIVES     |           |  |
|-------|------------------------|----------------|-----------------|-----------|-----------|--|
|       |                        | 16-Jul-21      | 01-Apr-21       | 10-Nov-20 | 27-Jul-20 |  |
| ELEME | ENTAL ANALYSIS (PPM) A | STM D5185 [OII | _] / ASTM D6130 | [COOLANT] |           |  |
| Cu    | Copper                 | 0              | 1               | 1         | 1         |  |
| Fe    | Iron                   | 5              | 9               | 11        | 12        |  |
| Cr    | Chromium               | 1              | 2               | 2         | 2         |  |
| Al    | Aluminum               | 1              | 1               | 1         | 2         |  |
| Pb    | Lead                   | 0              | 0               | 1         | 0         |  |
| Sn    | Tin                    | 0              | 2               | 1         | 0         |  |
| Si    | Silicon                | 3              | 1               | 4         | 11        |  |
| Na    | Sodium                 | 3              | 2               | 3         | 2         |  |
| K     | Potassium              | 3              | 1               | 0         | 1         |  |
| Мо    | Molybdenum             | 1              | 1               | 1         | 0         |  |
| Ni    | Nickel                 | 0              | 0               | 0         | 0         |  |
| Ag    | Silver                 | 0              | 0               | 0         | 0         |  |
| Ti    | Titanium               | 0              | 0               | 0         | 0         |  |
| V     | Vanadium               | 0              | 0               | 0         | 0         |  |
| Mn    | Manganese              | 0              | 0               | 0         | 0         |  |
| Cd    | Cadmium                | 0              | 0               | 0         | 0         |  |
| Ca    | Calcium                | 2266           | 2252            | 2297      | 2215      |  |
| Р     | Phosphorus             | 906            | 1018            | 887       | 856       |  |
| Zn    | Zinc                   | 1061           | 1012            | 1035      | 1028      |  |
| Mg    | Magnesium              | 10             | 7               | 12        | 11        |  |
| Ва    | Barium                 | 0              | 0               | 0         | 0         |  |
| В     | Boron                  | 2              | 1               | 2         | 2         |  |

| 11000 | OIII IIIDEX          |           |           |           |           |
|-------|----------------------|-----------|-----------|-----------|-----------|
| VI    | Viscosity Index      | 133       | 132       | 130       | 132       |
| INFRA | RED (UFM) ASTM E241  | 12        |           |           |           |
| ST    | Soot                 | 3         | 16        | 25        | 23        |
| OXI   | Oxidation            | 11        | 11        | 13        | 12        |
| SUL   | Sulfur Products      | 16        | 19        | 19        | 17        |
| NIT   | Nitration            | 7         | 8         | 9         | 8         |
|       |                      |           |           |           |           |
| WATE  | R - HOTPLATE         |           |           |           |           |
| W     | Water                | N         | N         | N         | N         |
|       |                      |           |           |           |           |
| FUEL  | DILUTION (SCREEN)    |           |           |           |           |
| F     | Fuel                 | N         | N         | N         | Р         |
|       |                      |           |           |           |           |
|       |                      |           |           |           |           |
| FUEL  | DILUTION (%) ASTM D7 | 7593      |           |           |           |
| PFc   | Percent Fuel         | 4.05      | 4.50      | 4.88      | 6.57      |
|       |                      |           |           |           |           |
|       |                      | CLEAN     | LINESS    |           |           |
|       |                      | 16-Jul-21 | 01-Apr-21 | 10-Nov-20 | 27-Jul-20 |
| FERR  | OUS DEBRIS           |           |           |           |           |



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Our sample reports has been updated! For more information on the new report, go to - https://www.youtube.com/watch?v=4h8bREJVUrs



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# **CONTACT INFORMATION**

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WHELANS GROUP INVESTMENTS

103 RUPERT ST

BAIRNSDALE, VIC

AUS 3875

PHONE: 5152 2844

FAX:

Email: workshop@whelansgroup.com.au

Interp By: Barry Swindells

**EQUIPMENT** 

EQUIP NUM: TK45

SERIAL NUMBER: TK45\_WHELANS

MODEL: FFR500

MANUFACTURER: ISUZU

COMPANY NAME: WHELANS GROUP INVESTMENTS PTY LTD

JOB SITE:

AREA:

REGION:

SAMPLE INFORMATION

COMPARTMENT NAME : ENGINE TRUCK

COMP SERIAL NUM:

COMPARTMENT MODEL :

LABEL#:

SHOP JOB NUM:

SAMPLE TYPE: OIL

SAMPLE SHIP TIME (days): 2

SAMPLE LOCATION: WORK SHOP

**Action Required** 

FUEL TEST INDICATE FUEL DILUTION, ENSURE CORRECT COMPARTMENT CONDOITION, MONITOR THE COMPARTMENT OIL LEVEL,

RESAMPLE AT HALF THE RECOMMENDED INTERVAL. \* Note this is the amended report with the fuel dilution percentage results entered.

LAB#

T010-50211-0621

|                |                 | WEAR/0          | CONTAMINATION -   | - ADDITIVES/F0  | ORMULATION       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |     |      |    |    |    |
|----------------|-----------------|-----------------|-------------------|-----------------|------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|-----|------|----|----|----|
| SAMPLE<br>DATE | SAMPLE ID       | METER<br>( KM ) | METER ON<br>FLUID | FLUID<br>CHANGE | FILTER<br>CHANGE | Cu | Fe | Cr | Al | Pb | Sn | Si | Na | К  | Мо | Ni | Ag | Ti | ٧  | Mn | Cd | Ca   | Р   | Zn   | Mg | Ва | В  |
| 27-Jul-20      | T010-50211-0621 | 645000          | 10000             | Y               | Υ                | 1  | 12 | 2  | 2  | 0  | 0  | 11 | 2  | 1  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 2215 | 856 | 1028 | 11 | 0  | 2  |
| 27-Mar-20      | T010-50098-0316 | 636251          | 10000             | Υ               | Υ                | 1  | 9  | 2  | 2  | 0  | 0  | 3  | 1  | 1  | 1  | 0  | 0  | 0  | 0  | 0  | 0  | 2250 | 860 | 1027 | 11 | 0  | 1  |
| 04-Dec-19      | T010-49351-0221 | 627165          | 13165             | Y               | Υ                | 1  | 12 | 2  | 2  | <1 | <1 | 4  | 2  | 2  | 3  | <1 | <1 | <1 | <1 | <1 | <1 | 2138 | 755 | 934  | 18 |    | 9  |
| 09-Aug-19      | T010-49225-0329 | 614000          | 5000              | Υ               | Y                | <1 | 13 | 2  | 2  | <1 | <1 | 4  | 4  | <1 | 14 | <1 | <1 | <1 | <1 | <1 | <1 | 2140 | 802 | 1015 | 64 |    | 45 |

|           |                 |             | OIL FORMULATION | - OIL CONDITION | ON - OIL CO | NOITANIMATION |      |      |     |    |     |     |     |   |   |      |
|-----------|-----------------|-------------|-----------------|-----------------|-------------|---------------|------|------|-----|----|-----|-----|-----|---|---|------|
| SAMPLE    | SAMPLE ID       | FLUID BRAND | FLUID TYPE      | FLUID           | FLUID       | FILTER        | V100 | V40  | VI  | ST | OXI | SUL | NIT | W | F | PFc  |
| DATE      |                 |             |                 | WEIGHT          | CHANGE      | CHANGE        |      |      |     |    |     |     |     |   |   |      |
| 27-Jul-20 | T010-50211-0621 | FUCHS       | CARGO           | 15W-40          | Υ           | Υ             | 11.8 | 84.7 | 132 | 23 | 12  | 17  | 8   | N | Р | 6.57 |
| 27-Mar-20 | T010-50098-0316 | FUCHS       | CARGO           | 15W-40          | Υ           | Υ             | 11.7 | 84.1 | 131 | 18 | 12  | 18  | 8   | N | Р | 6.01 |
| 04-Dec-19 | T010-49351-0221 | FUCHS       | CARGO           | 15W-40          | Υ           | Υ             | 11.8 | 83.4 | 134 | 24 | 14  | 21  | 9   | N | N | 5.57 |
| 09-Aug-19 | T010-49225-0329 | FUCHS       | CARGO           | 15W-40          | Υ           | Y             | 11.8 | 86.0 | 129 | 24 | 14  | 20  | 9   | N |   |      |

|           |                 | OIL    | CLEANLINESS |     |
|-----------|-----------------|--------|-------------|-----|
| SAMPLE    | SAMPLE ID       | FLUID  | FILTER      | PQI |
| DATE      |                 | CHANGE | CHANGE      |     |
| 27-Jul-20 | T010-50211-0621 | Υ      | Υ           | 6   |
| 27-Mar-20 | T010-50098-0316 | Υ      | Υ           | 5   |
| 04-Dec-19 | T010-49351-0221 | Υ      | Y           | 3   |
| 09-Aug-19 | T010-49225-0329 | Υ      | Y           | 2   |

Ag = Silver, Al = Aluminum, B = Boron, Ba = Barium, Ca = Calcium, Cd = Cadmium, Cr = Chromium, Cu = Copper, F = Fuel, Fe = Iron, K = Potassium, Mg = Magnesium, Mg = Magnesium, Mn = Miration, Ni = Nitration, Ni = Nitration,

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Barry Swindells

\_\_\_\_\_\_

Monitor

Compartment

**EQUIPMENT** 

EQUIP NUM: TK45

SERIAL NUMBER: TK45\_WHELANS

MODEL: FFR500

MANUFACTURER: ISUZU

COMPANY NAME: WHELANS GROUP INVESTMENTS PTY LTD

JOB SITE:

AREA:

REGION:

SAMPLE INFORMATION

COMPARTMENT NAME: ENGINE TRUCK

COMP SERIAL NUM:

COMPARTMENT MODEL :

LABEL#:

SHOP JOB NUM:

SAMPLE TYPE: OIL

SAMPLE SHIP TIME (days): 2

SAMPLE LOCATION: WORK SHOP

THIS IS A PRELIMINARY REPORT. THE FUEL DILUTION TEST IS DELAYED DUE TO INSTRUMENT REPAIRS. FINAL REPORT TO BE SENT UPON TEST COMPLETION. WE WILL MONITOR ACTIVITY OVER THE NEXT FEW SAMPLES. ALL OTHER TEST RESULTS APPEAR ACCEPTABLE. RESAMPLE AT THE NEXT SERVICE INTERVAL.

LAB#

T010-50211-0621

|                |                 | WEAR/0          | ONTAMINATION - | ADDITIVES/F     | ORMULATION       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |     |      |    |    |    |
|----------------|-----------------|-----------------|----------------|-----------------|------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|-----|------|----|----|----|
| SAMPLE<br>DATE | SAMPLE ID       | METER<br>( KM ) | METER ON FLUID | FLUID<br>CHANGE | FILTER<br>CHANGE | Cu | Fe | Cr | Al | Pb | Sn | Si | Na | К  | Мо | Ni | Ag | Ti | V  | Mn | Cd | Ca   | Р   | Zn   | Mg | Ва | В  |
| DATE           |                 | ,               | I LOID         | CHANGE          | CHANGE           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |     |      |    |    |    |
| 27-Jul-20      | T010-50211-0621 | 645000          | 10000          | Υ               | Υ                | 1  | 12 | 2  | 2  | 0  | 0  | 11 | 2  | 1  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 2215 | 856 | 1028 | 11 | 0  | 2  |
| 27-Mar-20      | T010-50098-0316 | 636251          | 10000          | Υ               | Y                | 1  | 9  | 2  | 2  | 0  | 0  | 3  | 1  | 1  | 1  | 0  | 0  | 0  | 0  | 0  | 0  | 2250 | 860 | 1027 | 11 | 0  | 1  |
| 04-Dec-19      | T010-49351-0221 | 627165          | 13165          | Y               | Y                | 1  | 12 | 2  | 2  | <1 | <1 | 4  | 2  | 2  | 3  | <1 | <1 | <1 | <1 | <1 | <1 | 2138 | 755 | 934  | 18 |    | 9  |
| 09-Aug-19      | T010-49225-0329 | 614000          | 5000           | Υ               | Υ                | <1 | 13 | 2  | 2  | <1 | <1 | 4  | 4  | <1 | 14 | <1 | <1 | <1 | <1 | <1 | <1 | 2140 | 802 | 1015 | 64 |    | 45 |

|           |                 |             | OIL FORMULATION | I - OIL CONDITION | ON - OIL CO | NOITAMIMATION |      |      |     |    |     |     |     |   |   |      |
|-----------|-----------------|-------------|-----------------|-------------------|-------------|---------------|------|------|-----|----|-----|-----|-----|---|---|------|
| SAMPLE    | SAMPLE ID       | FLUID BRAND | FLUID TYPE      | FLUID             | FLUID       | FILTER        | V100 | V40  | VI  | ST | OXI | SUL | NIT | W | F | PFc  |
| DATE      |                 |             |                 | WEIGHT            | CHANGE      | CHANGE        |      |      |     |    |     |     |     |   |   |      |
| 27-Jul-20 | T010-50211-0621 | FUCHS       | CARGO           | 15W-40            | Υ           | Υ             | 11.8 | 84.7 | 132 | 23 | 12  | 17  | 8   | N |   |      |
| 27-Mar-20 | T010-50098-0316 | FUCHS       | CARGO           | 15W-40            | Y           | Y             | 11.7 | 84.1 | 131 | 18 | 12  | 18  | 8   | N | Р | 6.01 |
| 04-Dec-19 | T010-49351-0221 | FUCHS       | CARGO           | 15W-40            | Y           | Y             | 11.8 | 83.4 | 134 | 24 | 14  | 21  | 9   | N | N | 5.57 |
| 09-Aug-19 | T010-49225-0329 | FUCHS       | CARGO           | 15W-40            | Υ           | Υ             | 11.8 | 86.0 | 129 | 24 | 14  | 20  | 9   | N |   |      |

|           |                 | OIL    | CLEANLINESS |     |
|-----------|-----------------|--------|-------------|-----|
| SAMPLE    | SAMPLE ID       | FLUID  | FILTER      | PQI |
| DATE      |                 | CHANGE | CHANGE      |     |
| 27-Jul-20 | T010-50211-0621 | Υ      | Υ           | 6   |
| 27-Mar-20 | T010-50098-0316 | Υ      | Υ           | 5   |
| 04-Dec-19 | T010-49351-0221 | Υ      | Υ           | 3   |
| 09-Aug-19 | T010-49225-0329 | Υ      | Y           | 2   |

Ag = Silver, Al = Aluminum, B = Boron, Ba = Barium, Ca = Calcium, Cd = Cadmium, Cr = Chromium, Cu = Copper, F = Fuel, Fe = Iron, K = Potassium, Mg = Magnesium, Mg = Magnesium, Ni = Nitration, Ni = Nitration

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Interp By: Tom Cokalis

**EQUIPMENT** 

EQUIP NUM: TK45

SERIAL NUMBER: TK45\_WHELANS

MODEL: FFR500

MANUFACTURER: ISUZU

COMPANY NAME: WHELANS GROUP INVESTMENTS PTY LTD

JOB SITE:

AREA:

REGION:

SAMPLE INFORMATION

COMPARTMENT NAME : ENGINE TRUCK

COMP SERIAL NUM:

COMPARTMENT MODEL :

LABEL#:

SHOP JOB NUM:

SAMPLE TYPE: OIL

SAMPLE SHIP TIME (days): 3

SAMPLE LOCATION:

No Action Required

OIL CONDITION SATISFACTORY, CONTINUE SAMPLING AT THE RECOMMENDED INTERVAL.

LAB#

T010-50318-0513

|                |                 | WEAR/0          | CONTAMINATION     | - ADDITIVES/F   | ORMULATION       |    |    |    |    |    |    |    |    |   |    |    |    |    |    |    |    |      |     |      |    |    |   |
|----------------|-----------------|-----------------|-------------------|-----------------|------------------|----|----|----|----|----|----|----|----|---|----|----|----|----|----|----|----|------|-----|------|----|----|---|
| SAMPLE<br>DATE | SAMPLE ID       | METER<br>( KM ) | METER ON<br>FLUID | FLUID<br>CHANGE | FILTER<br>CHANGE | Cu | Fe | Cr | AI | Pb | Sn | Si | Na | К | Мо | Ni | Ag | Ti | ٧  | Mn | Cd | Са   | Р   | Zn   | Mg | Ва | В |
| 10-Nov-20      | T010-50318-0513 | 655000          | 10000             | Υ               | Y                | 1  | 11 | 2  | 1  | 1  | 1  | 4  | 3  | 0 | 1  | 0  | 0  | 0  | 0  | 0  | 0  | 2297 | 887 | 1035 | 12 | 0  | 2 |
| 27-Jul-20      | T010-50211-0621 | 645000          | 10000             | Υ               | Υ                | 1  | 12 | 2  | 2  | 0  | 0  | 11 | 2  | 1 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 2215 | 856 | 1028 | 11 | 0  | 2 |
| 27-Mar-20      | T010-50098-0316 | 636251          | 10000             | Υ               | Υ                | 1  | 9  | 2  | 2  | 0  | 0  | 3  | 1  | 1 | 1  | 0  | 0  | 0  | 0  | 0  | 0  | 2250 | 860 | 1027 | 11 | 0  | 1 |
| 04-Dec-19      | T010-49351-0221 | 627165          | 13165             | Y               | Υ                | 1  | 12 | 2  | 2  | <1 | <1 | 4  | 2  | 2 | 3  | <1 | <1 | <1 | <1 | <1 | <1 | 2138 | 755 | 934  | 18 |    | 9 |

|           |                 |             | OIL FORMULATION | - OIL CONDITI | ON - OIL CO | NTAMINATION | Ī    |      |     |    |     |     |     |   |   |      |
|-----------|-----------------|-------------|-----------------|---------------|-------------|-------------|------|------|-----|----|-----|-----|-----|---|---|------|
| SAMPLE    | SAMPLE ID       | FLUID BRAND | FLUID TYPE      | FLUID         | FLUID       | FILTER      | V100 | V40  | VI  | ST | OXI | SUL | NIT | W | F | PFc  |
| DATE      |                 |             |                 | WEIGHT        | CHANGE      | CHANGE      |      |      |     |    |     |     |     |   |   |      |
| 10-Nov-20 | T010-50318-0513 | FUCHS       | CARGO           | 15W-40        | Y           | Y           | 12.3 | 90.4 | 130 | 25 | 13  | 19  | 9   | N | N | 4.88 |
| 27-Jul-20 | T010-50211-0621 | FUCHS       | CARGO           | 15W-40        | Y           | Y           | 11.8 | 84.7 | 132 | 23 | 12  | 17  | 8   | N | Р | 6.57 |
| 27-Mar-20 | T010-50098-0316 | FUCHS       | CARGO           | 15W-40        | Y           | Y           | 11.7 | 84.1 | 131 | 18 | 12  | 18  | 8   | N | Р | 6.01 |
| 04-Dec-19 | T010-49351-0221 | FUCHS       | CARGO           | 15W-40        | Y           | Y           | 11.8 | 83.4 | 134 | 24 | 14  | 21  | 9   | N | N | 5.57 |

|           |                 | OIL    | CLEANLINESS |     |
|-----------|-----------------|--------|-------------|-----|
| SAMPLE    | SAMPLE ID       | FLUID  | FILTER      | PQI |
| DATE      |                 | CHANGE | CHANGE      |     |
| 10-Nov-20 | T010-50318-0513 | Y      | Υ           | 6   |
| 27-Jul-20 | T010-50211-0621 | Y      | Y           | 6   |
| 27-Mar-20 | T010-50098-0316 | Y      | Y           | 5   |
| 04-Dec-19 | T010-49351-0221 | Υ      | Υ           | 3   |

Ag = Silver, Al = Aluminum, B = Boron, Ba = Barium, Ca = Calcium, Cd = Cadmium, Cr = Chromium, Cu = Copper, F = Fuel, Fe = Iron, K = Potassium, Mg = Magnesium, Mg = Magnesium, Ml = Nitration, Na = Sodium, Ni = Nickel, OXI = Oxidation, P = Phosphorus, PFC = Percent Fuel Content, POI = Particle Quantifying index, ST = Soot, SUL = Sulfation, Si = Silicon, Sn = Tin, Ti = Titanium, V = Vanadium, V100 = Viscosity@100C, V40 = Viscosity@40C, VI = Viscosity@10C, V40 = Viscosity@40C, VI = Vi

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Email: workshop@whelansgroup.com.au

Interp By: Barry Swindells

Monitor

Compartment

**EQUIPMENT** 

CUSTOMER EQUIP NUM: TK45

SERIAL NUMBER: TK45\_WHELANS

MODEL: FFR500

MANUFACTURER: ISUZU

COMPANY NAME: WHELANS GROUP INVESTMENTS PTY LTD

JOB SITE :

AREA:

REGION:

SAMPLE INFORMATION

COMPARTMENT NAME : ENGINE TRUCK

COMP SERIAL NUM:

COMPARTMENT MODEL :

LABEL#:

SHOP JOB NUM:

SAMPLE TYPE: OIL

SAMPLE SHIP TIME (days): 4

SAMPLE LOCATION: WORK SHOP

POSSIBLE FUEL DILUTION OCCURING, CONTINUE SAMPLING AT THE RECOMMENDED INTERVAL TO MONITOR. OIL KLMS AND TOTAL KLMS APPEAR INCONSISTENT.

LAB#

T010-49225-0329

|                | WEAR/CONTAMINATION - ADDITIVES/FORMULATION |                 |                   |                 |                  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |     |      |     |     |
|----------------|--|-----------------|-------------------|-----------------|------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|-----|------|-----|-----|
| SAMPLE<br>DATE | SAMPLE ID                                  | METER<br>( KM ) | METER ON<br>FLUID | FLUID<br>CHANGE | FILTER<br>CHANGE | Cu | Fe | Cr | Al | Pb | Sn | Si | Na | К  | Мо | Ni | Ag | Ti | ٧  | Mn | Cd | Ca   | Р   | Zn   | Mg  | В   |
| 09-Aug-19      | T010-49225-0329                            | 614000          | 5000              | Υ               | Υ                | <1 | 13 | 2  | 2  | <1 | <1 | 4  | 4  | <1 | 14 | <1 | <1 | <1 | <1 | <1 | <1 | 2140 | 802 | 1015 | 64  | 45  |
| 20-May-19      | T010-49147-0419                            | 603978          | 10445             | Υ               | Y                | <1 | 13 | 2  | 3  | <1 | <1 | 6  | 4  | <1 | 82 | <1 | <1 | <1 | <1 | <1 | <1 | 1227 | 828 | 1055 | 354 | 313 |
| 26-Feb-19      | T010-49064-0513                            | 593533          | 10000             | Y               | Y                | <1 | 13 | 2  | 4  | 2  | 3  | 6  | 3  | <1 | 90 | <1 | <1 | <1 | <1 | <1 | <1 | 1315 | 901 | 1110 | 396 | 370 |
| 28-Jan-19      | T010-49032-0408                            | 522000          | 10000             | Υ               | Y                | <1 | 10 | <1 | 4  | <1 | 3  | 7  | 3  | <1 | 82 | <1 | <1 | <1 | <1 | <1 | <1 | 1318 | 918 | 1148 | 380 | 379 |

|           | OIL FORMULATION - OIL CONDITION - OIL CONTAMINATION |             |            |        |        |        |      |      |     |    |     |     |     |   |   |      |
|-----------|---|-------------|------------|--------|--------|--------|------|------|-----|----|-----|-----|-----|---|---|------|
| SAMPLE    | SAMPLE ID   | FLUID BRAND | FLUID TYPE | FLUID  | FLUID  | FILTER | V100 | V40  | VI  | ST | OXI | SUL | NIT | W | F | PFc  |
| DATE      |   |             |            | WEIGHT | CHANGE | CHANGE |      |      |     |    |     |     |     |   |   |      |
| 09-Aug-19 | T010-49225-0329                                     | FUCHS       | CARGO      | 15W-40 | Υ      | Υ      | 11.8 | 86.0 | 129 | 24 | 14  | 20  | 9   | N |   |      |
| 20-May-19 | T010-49147-0419                                     | FUCHS       | CARGO      | 15W-40 | Y      | Y      | 11.5 | 80.1 | 135 | 26 | 16  | 22  | 8   | N | N | 5.63 |
| 26-Feb-19 | T010-49064-0513                                     | FUCHS       | CARGO      | 15W-40 | Y      | Y      | 12.0 | 83.2 | 138 | 26 | 16  | 22  | 7   | N | N | 5.13 |
| 28-Jan-19 | T010-49032-0408                                     | FUCHS       | CARGO      | 15W-40 | Υ      | Υ      | 13.7 | 97.7 | 141 | 31 | 13  | 20  | 5   | N | N |      |

|           |                 | OIL    | CLEANLINESS |     |
|-----------|-----------------|--------|-------------|-----|
| SAMPLE    | SAMPLE ID       | FLUID  | FILTER      | PQI |
| DATE      |                 | CHANGE | CHANGE      |     |
| 09-Aug-19 | T010-49225-0329 | Y      | Υ           | 2   |
| 20-May-19 | T010-49147-0419 | Y      | Y           | 7   |
| 26-Feb-19 | T010-49064-0513 | Y      | Y           | 3   |
| 28-Jan-19 | T010-49032-0408 | Υ      | Υ           | 0   |

Ag = Silver, Al = Aluminum, B = Boron, Ca = Calcium, Cd = Cadmium, Cr = Chromium, Cu = Copper, Fe = Iron, K = Potassium, Mg = Magnesium, Mn = Manganese, Mo = Molybdenum, NIT = Nitration, Na = Sodium, Ni = Nickel, OXI = Oxidation, P = Phosphorus, PQI = Particle Quantifying index, Pb = Lead, ST = Soot, SUL = Sulfation, Si = Silicon, Sn = Tin, Ti = Titanium, V = Vanadium, V100 = Viscosity@100C, V40 = Viscosity@100C, V1 = Viscosi

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Email: workshop@whelansgroup.com.au

Interp By: Tom Cokalis

**EQUIPMENT** 

CUSTOMER EQUIP NUM: TK45

SERIAL NUMBER: TK45\_WHELANS

MODEL: FFR500

MANUFACTURER: ISUZU

COMPANY NAME: WHELANS GROUP INVESTMENTS PTY LTD

JOB SITE:

AREA:

REGION:

SAMPLE INFORMATION

COMPARTMENT NAME : ENGINE TRUCK

COMP SERIAL NUM:

COMPARTMENT MODEL :

LABEL#:

SHOP JOB NUM:

SAMPLE TYPE: OIL

SAMPLE SHIP TIME (days): 13

SAMPLE LOCATION: WORK SHOP

No Action Required

OIL CONDITION SATISFACTORY, CONTINUE SAMPLING AT THE RECOMMENDED INTERVAL.

LAB#

T010-49351-0221

|                | WEAR/CONTAMINATION - ADDITIVES/FORMULATION |                 |                   |                 |                  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |     |      |     |     |
|----------------|--|-----------------|-------------------|-----------------|------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|-----|------|-----|-----|
| SAMPLE<br>DATE | SAMPLE ID                                  | METER<br>( KM ) | METER ON<br>FLUID | FLUID<br>CHANGE | FILTER<br>CHANGE | Cu | Fe | Cr | Al | Pb | Sn | Si | Na | К  | Мо | Ni | Ag | Ti | V  | Mn | Cd | Ca   | Р   | Zn   | Mg  | В   |
| 04-Dec-19      | T010-49351-0221                            | 627165          | 13165             | Υ               | Υ                | 1  | 12 | 2  | 2  | <1 | <1 | 4  | 2  | 2  | 3  | <1 | <1 | <1 | <1 | <1 | <1 | 2138 | 755 | 934  | 18  | 9   |
| 09-Aug-19      | T010-49225-0329                            | 614000          | 5000              | Υ               | Y                | <1 | 13 | 2  | 2  | <1 | <1 | 4  | 4  | <1 | 14 | <1 | <1 | <1 | <1 | <1 | <1 | 2140 | 802 | 1015 | 64  | 45  |
| 20-May-19      | T010-49147-0419                            | 603978          | 10445             | Υ               | Y                | <1 | 13 | 2  | 3  | <1 | <1 | 6  | 4  | <1 | 82 | <1 | <1 | <1 | <1 | <1 | <1 | 1227 | 828 | 1055 | 354 | 313 |
| 26-Feb-19      | T010-49064-0513                            | 593533          | 10000             | Υ               | Y                | <1 | 13 | 2  | 4  | 2  | 3  | 6  | 3  | <1 | 90 | <1 | <1 | <1 | <1 | <1 | <1 | 1315 | 901 | 1110 | 396 | 370 |

|           | OIL FORMULATION - OIL CONDITION - OIL CONTAMINATION |             |            |        |        |        |      |      |     |    |     |     |     |   |   |      |
|-----------|---|-------------|------------|--------|--------|--------|------|------|-----|----|-----|-----|-----|---|---|------|
| SAMPLE    | SAMPLE ID   | FLUID BRAND | FLUID TYPE | FLUID  | FLUID  | FILTER | V100 | V40  | VI  | ST | OXI | SUL | NIT | W | F | PFc  |
| DATE      |   |             |            | WEIGHT | CHANGE | CHANGE |      |      |     |    |     |     |     |   |   |      |
| 04-Dec-19 | T010-49351-0221                                     | FUCHS       | CARGO      | 15W-40 | Υ      | Υ      | 11.8 | 83.4 | 134 | 24 | 14  | 21  | 9   | N | N | 5.57 |
| 09-Aug-19 | T010-49225-0329                                     | FUCHS       | CARGO      | 15W-40 | Y      | Y      | 11.8 | 86.0 | 129 | 24 | 14  | 20  | 9   | N |   |      |
| 20-May-19 | T010-49147-0419                                     | FUCHS       | CARGO      | 15W-40 | Y      | Y      | 11.5 | 80.1 | 135 | 26 | 16  | 22  | 8   | N | N | 5.63 |
| 26-Feb-19 | T010-49064-0513                                     | FUCHS       | CARGO      | 15W-40 | Υ      | Υ      | 12.0 | 83.2 | 138 | 26 | 16  | 22  | 7   | N | N | 5.13 |

|           |                 | OIL    | CLEANLINESS |     |
|-----------|-----------------|--------|-------------|-----|
| SAMPLE    | SAMPLE ID       | FLUID  | FILTER      | PQI |
| DATE      |                 | CHANGE | CHANGE      |     |
| 04-Dec-19 | T010-49351-0221 | Υ      | Υ           | 3   |
| 09-Aug-19 | T010-49225-0329 | Υ      | Υ           | 2   |
| 20-May-19 | T010-49147-0419 | Υ      | Υ           | 7   |
| 26-Feb-19 | T010-49064-0513 | Υ      | Υ           | 3   |

Ag = Silver, Al = Aluminum, B = Boron, Ca = Calcium, Cd = Cadmium, Cr = Chromium, Cu = Copper, F = Fuel, Fe = Iron, K = Potassium, Mg = Magnesium, Mn = Manganese, Mo = Molybdenum, NIT = Nitration, Na = Sodium, Ni = Nickel, OXI = Oxidation, P = Phosphorus, PFC = Percent Fuel Content, PQI = Particle Quantifying index, Pb = Lead, ST = Soot, SUL = Sulfation, Si = Silicon, Sn = Tin, Ti = Titanium, V = Vanadium, V100 = Viscosity@40C, VI = Viscosity@10C, VI = Viscosity index, W = Water, Zn = Zinc