

# William Adams



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

PHONE: 03 9566 0666

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

## CONTACT INFORMATION

BEN SMITH  
WHELANDS GROUP INVESTMENTS  
103 RUPERT ST  
BAIRNSDALE, VIC  
AUS 3875  
PHONE: 5152 2844  
FAX:  
Email: workshop@whelansgroup.com.au

Interp By: Tom Cokalis

## EQUIPMENT

CUSTOMER EQUIP NUM : TK47  
SERIAL NUMBER : 299319  
MODEL : FRR\_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) :  
SAMPLE LOCATION : WORKSHOP

**No Action Required**

OIL CONDITION SATISFACTORY, CONTINUE SAMPLING AT THE RECOMMENDED INTERVAL.

LAB #

T010-48199-0115

### WEAR/CONTAMINATION - ADDITIVES/FORMULATION

SAMPLE DATE	SAMPLE ID	METER ( KM )	METER ON FLUID	FLUID CHANGE	FILTER CHANGE	Cu	Fe	Cr	Al	Pb	Sn	Si	Na	K	Mo	Ni	Ag	Ti	V	Mn	Cd	Ca	P	Zn	Mg	B
16-Jul-18	T010-48199-0115	502494	10000	Y	Y	1	11	1	3	2	2	6	2	<1	83	<1	<1	<1	<1	<1	<1	1287	937	1138	354	337
15-Nov-17	T010-47321-0421	477000	10000	Y	Y	3	23	2	3	13	<1	8	1	1	81	<1	<1	<1	<1	<1	<1	1113	809	1044	357	235
12-May-17	T010-47137-0221		10000	Y	Y	2	14	2	3	<1	<1	7	8	1	84	<1	<1	<1	1	<1	<1	1235	873	1126	331	336
17-Jan-17	T010-47024-0429	449567	9567	Y	Y	1	10	1	3	<1	<1	12	6	1	86	<1	<1	<1	<1	<1	<1	1264	942	1129	369	356

### OIL FORMULATION - OIL CONDITION - OIL CONTAMINATION

SAMPLE DATE	SAMPLE ID	FLUID BRAND	FLUID TYPE	FLUID WEIGHT	FLUID CHANGE	FILTER CHANGE	V100	V40	VI	ST	OXI	SUL	NIT	W	F	PFc
16-Jul-18	T010-48199-0115	FUCHS	CARGO	15W-40	Y	Y	12.1	85.0	137	14	16	22	7	N	N	3.45
15-Nov-17	T010-47321-0421	FUCHS	CARGO	15W-40	Y	Y		80.8		31	18	25	9	N	N	4.11
12-May-17	T010-47137-0221	FUCHS	CARGO	15W-40	Y	Y		83.8		16	16	25	7	N	N	4.09
17-Jan-17	T010-47024-0429	FUCHS	CARGO	15W-40	Y	Y		84.8		9	16	21	6	N	N	5.38

### OIL CLEANLINESS

SAMPLE DATE	SAMPLE ID	FLUID CHANGE	FILTER CHANGE	PQI
16-Jul-18	T010-48199-0115	Y	Y	1
15-Nov-17	T010-47321-0421	Y	Y	1
12-May-17	T010-47137-0221	Y	Y	0
17-Jan-17	T010-47024-0429	Y	Y	7

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@100C, V40 = Viscosity@40C, VI = Viscosity Index, W = Water, Zn = Zinc

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 a component thereof.

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## EQUIPMENT

CUSTOMER EQUIP NUM : TK47  
SERIAL NUMBER : 299319  
MODEL : FRR\_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 : WORKSHOP

Interp By: Barry Swindells

### Action Required

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

LAB #

T010-48348-0621

### WEAR/CONTAMINATION - ADDITIVES/FORMULATION

SAMPLE DATE	SAMPLE ID	METER ( KM )	METER ON FLUID	FLUID CHANGE	FILTER CHANGE	Cu	Fe	Cr	Al	Pb	Sn	Si	Na	K	Mo	Ni	Ag	Ti	V	Mn	Cd	Ca	P	Zn	Mg	B
10-Dec-18	T010-48348-0621	515000	10000	Y	Y	1	11	2	4	<1	2	7	2	1	86	<1	<1	<1	<1	<1	<1	1408	931	1182	385	384
16-Jul-18	T010-48199-0115	502494	10000	Y	Y	1	11	1	3	2	2	6	2	<1	83	<1	<1	<1	<1	<1	<1	1287	937	1138	354	337
15-Nov-17	T010-47321-0421	477000	10000	Y	Y	3	23	2	3	13	<1	8	1	1	81	<1	<1	<1	<1	<1	<1	1113	809	1044	357	235
12-May-17	T010-47137-0221		10000	Y	Y	2	14	2	3	<1	<1	7	8	1	84	<1	<1	<1	1	<1	<1	1235	873	1126	331	336

### OIL FORMULATION - OIL CONDITION - OIL CONTAMINATION

SAMPLE DATE	SAMPLE ID	FLUID BRAND	FLUID TYPE	FLUID WEIGHT	FLUID CHANGE	FILTER CHANGE	V100	V40	VI	ST	OXI	SUL	NIT	W	F	PFc
10-Dec-18	T010-48348-0621	FUCHS	CARGO	15W-40	Y	Y	12.7	87.9	142	16	16	22	7	N	N	4.31
16-Jul-18	T010-48199-0115	FUCHS	CARGO	15W-40	Y	Y	12.1	85.0	137	14	16	22	7	N	N	3.45
15-Nov-17	T010-47321-0421	FUCHS	CARGO	15W-40	Y	Y		80.8		31	18	25	9	N	N	4.11
12-May-17	T010-47137-0221	FUCHS	CARGO	15W-40	Y	Y		83.8		16	16	25	7	N	N	4.09

### OIL CLEANLINESS

SAMPLE DATE	SAMPLE ID	FLUID CHANGE	FILTER CHANGE	PQI
10-Dec-18	T010-48348-0621	Y	Y	2
16-Jul-18	T010-48199-0115	Y	Y	1
15-Nov-17	T010-47321-0421	Y	Y	1
12-May-17	T010-47137-0221	Y	Y	0

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@100C, V40 = Viscosity@40C, VI = Viscosity Index, W = Water, Zn = Zinc

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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 : WORKSHOP

Interp By: Barry Swindells

**Monitor  
Compartment**

POSSIBLE FUEL DILUTION OCCURING, CONTINUE SAMPLING AT THE RECOMMENDED INTERVAL TO MONITOR. \* Please disregard the previous overall evaluation as it was incorrect, pls note, that this comp evaluation is now a MC for monitor compartment, apologies for any confusion this may have caused refer BGS 20/12/2018

LAB #

T010-48348-0621

### WEAR/CONTAMINATION - ADDITIVES/FORMULATION

SAMPLE DATE	SAMPLE ID	METER ( KM )	METER ON FLUID	FLUID CHANGE	FILTER CHANGE	Cu	Fe	Cr	Al	Pb	Sn	Si	Na	K	Mo	Ni	Ag	Ti	V	Mn	Cd	Ca	P	Zn	Mg	B
10-Dec-18	T010-48348-0621	515000	10000	Y	Y	1	11	2	4	<1	2	7	2	1	86	<1	<1	<1	<1	<1	<1	1408	931	1182	385	384
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12-May-17	T010-47137-0221		10000	Y	Y	2	14	2	3	<1	<1	7	8	1	84	<1	<1	<1	1	<1	<1	1235	873	1126	331	336

### OIL FORMULATION - OIL CONDITION - OIL CONTAMINATION

SAMPLE DATE	SAMPLE ID	FLUID BRAND	FLUID TYPE	FLUID WEIGHT	FLUID CHANGE	FILTER CHANGE	V100	V40	VI	ST	OXI	SUL	NIT	W	F	PFc
10-Dec-18	T010-48348-0621	FUCHS	CARGO	15W-40	Y	Y	12.7	87.9	142	16	16	22	7	N	N	4.31
16-Jul-18	T010-48199-0115	FUCHS	CARGO	15W-40	Y	Y	12.1	85.0	137	14	16	22	7	N	N	3.45
15-Nov-17	T010-47321-0421	FUCHS	CARGO	15W-40	Y	Y		80.8		31	18	25	9	N	N	4.11
12-May-17	T010-47137-0221	FUCHS	CARGO	15W-40	Y	Y		83.8		16	16	25	7	N	N	4.09

### OIL CLEANLINESS

SAMPLE DATE	SAMPLE ID	FLUID CHANGE	FILTER CHANGE	PQI
10-Dec-18	T010-48348-0621	Y	Y	2
16-Jul-18	T010-48199-0115	Y	Y	1
15-Nov-17	T010-47321-0421	Y	Y	1
12-May-17	T010-47137-0221	Y	Y	0

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@100C, V40 = Viscosity@40C, VI = Viscosity Index, W = Water, Zn = Zinc

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## ENGINE TRUCK

EQUIP NUM: TK47

SERIAL NUMBER: 299319

T010-54346-0406

SAMPLE SHIP TIME (days) : 7

WHELANS GROUP

INVESTMENTS PTY LTD

LOCATION: WSHOP

RECEIVED DATE: 11-Dec-24



## Action Required

FUEL TEST INDICATE FUEL DILUTION, LEAD RESULT APPEARS SLIGHTLY HIGH, SUGGEST CUT OPEN FILTER(S) AND  
INSPECT FOR DEBRIS. ENSURE CORRECT COMPARTMENT CONDITION, MONITOR THE COMPARTMENT OIL LEVEL,  
RESAMPLE AT HALF THE RECOMMENDED INTERVAL.

Interp By: Barry Swindells

Interpreted On: 12-Dec-24

## SAMPLE INFORMATION



Sampled Date	04-Dec-24	14-Aug-23	05-May-22	05-May-21
Sample Id	T010-54346-0406	T010-53230-0228	T010-52126-0208	T010-51131-0108
Lab Date	11-Dec-24	18-Aug-23	06-May-22	11-May-21
Meter [Km]	16000	595098	590000	583000
Comp Meter [Km]	16000			
Meter On Fluid	10000	5098	10000	10000
Fluid Brand	VALVOLINE	VALVOLINE	FUCHS	FUCHS
Fluid Weight	15W-40	15W-40	15W-40	15W-40
Fluid Type	ALL FLEET PLUS	ALL FLEET PLUS	CARGO	CARGO
Fluid Change	Y	Y	Y	Y
Filter Change	Y	Y	Y	Y
Make Up Fluid [L]	12			0
Total Fluid Added	12	0	0	0

## WEAR LEVELS / ADDITIVES

		04-Dec-24	14-Aug-23	05-May-22	05-May-21
ELEMENTAL ANALYSIS (PPM) ASTM D5185 [OIL] / ASTM D6130 [COOLANT]					
Cu	Copper	2	1	2	1
Fe	Iron	17	5	16	8
Cr	Chromium	2	1	4	1
Al	Aluminum	2	1	3	1
Pb	Lead	13	0	1	1
Sn	Tin	1	0	0	0
Si	Silicon	5	3	7	3
Na	Sodium	2	3	3	4
K	Potassium	0	2	2	5
Mo	Molybdenum	63	0	1	1
Ni	Nickel	1	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	1671	2059	2265	2195
P	Phosphorus	990	805	889	834
Zn	Zinc	1145	928	1034	1017
Mg	Magnesium	315	11	10	11
Ba	Barium	0	0	0	0
B	Boron	213	2	2	0

## PREVIOUS SAMPLE

OIL CONDITION SATISFACTORY, CONTINUE SAMPLING AT THE RECOMMENDED INTERVAL.

For additional sample history, go to:

[S.O.S WEB](#)

## CONDITION / CONTAMINATION

		04-Dec-24	14-Aug-23	05-May-22	05-May-21
VISCOSITY (CENTISTOKES) ASTM D445					
V100	Viscosity at 100 C	11.18	12.10	11.90	12.7
VISCOSITY (CENTISTOKES) ASTM D445					
V40	Viscosity at 40 C	76.03	85.64	87.02	91.6

## VISCOSITY INDEX

VI	Viscosity Index	138	135	129	135
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## INFRARED (UFM) ASTM E2412

ST	Soot	17	1	11	10
OXI	Oxidation	20	12	13	12
SUL	Sulfur Products	22	18	20	17
NIT	Nitration	0	0	9	8

## WATER - HOTPLATE

W	Water	N	N	N	N
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## FUEL DILUTION (SCREEN)

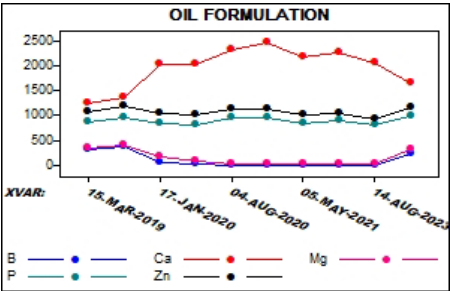
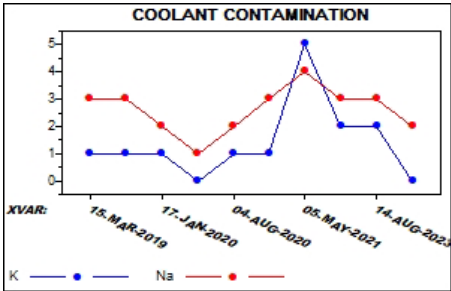
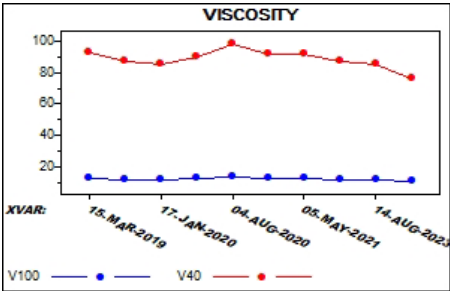
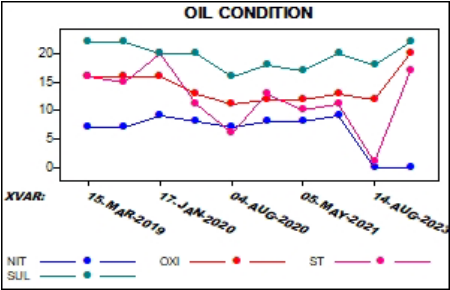
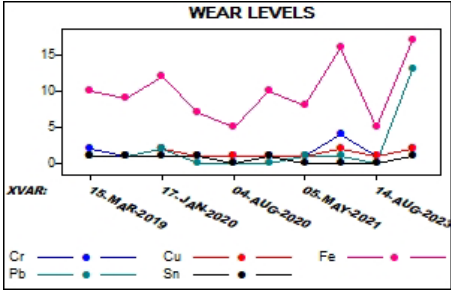
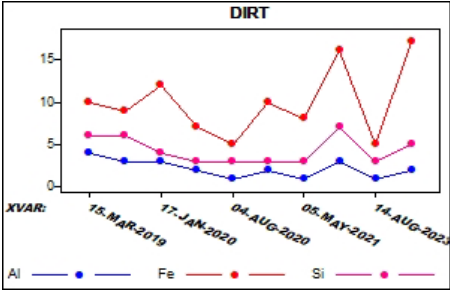
F	Fuel	P	N	N	N
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## FUEL DILUTION (%) ASTM D7593

PFc	Percent Fuel	7.3	4.35	5.46	3.65
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## CLEANLINESS

		04-Dec-24	14-Aug-23	05-May-22	05-May-21
FERROUS DEBRIS					
PQI	PQ Index	0	0	0	6



Report Comment

Our sample reports has been updated! For more information on the new report, go to - <https://www.youtube.com/watch?v=4h8bREJvUrs>



ENGINE TRUCK

EQUIP NUM: TK47  
ISUZU FRR\_ISUZU  
No Action Required

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

T010-53230-0228  
SAMPLE SHIP TIME (days) : 4  
WHELANS GROUP  
INVESTMENTS PTY LTD  
RECEIVED DATE: 18-Aug-23

OIL CONDITION SATISFACTORY, CONTINUE SAMPLING AT THE RECOMMENDED INTERVAL.

SAMPLE INFORMATION				
Sampled Date	14-Aug-23	05-May-22	05-May-21	05-Nov-20
Sample Id	T010-53230-0228	T010-52126-0208	T010-51131-0108	T010-50321-0207
Lab Date	18-Aug-23	06-May-22	11-May-21	16-Nov-20
Meter [Hr]	595098	590000	583000	674000
Meter On Fluid	5098	10000	10000	111000
Fluid Brand	VALVOLINE	FUCHS	FUCHS	FUCHS
Fluid Weight	15W-40	15W-40	15W-40	15W-40
Fluid Type	ALL FLEET PLUS	CARGO	CARGO	CARGO
Fluid Change	Y	Y	Y	Y
Filter Change	Y	Y	Y	Y
Make Up Fluid [L]			0	0
Total Fluid Added	0	0	0	0

PREVIOUS SAMPLE				
LOW OIL VISCOSITY AND FUEL TEST INDICATES A MODERATELY HIGH LEVEL OF FUEL DILUTION. MONITOR COMPARTMENT FOR RISING OIL LEVELS ARE ELEVATED. CHECK FILTER MEDIUM AND SCREENS FOR WEAR MATERIAL AND CONTAMINATION. CHECK & ENSURE THIS COMPARTMENT OPERATING CORRECTLY. WE WILL MONITOR ACTIVITY OVER THE NEXT FEW SAMPLES. AFTER INSPECTION RESAMPLE AT THE NEXT SERVICE INTERVAL TO RE-EVALUATE CONDITION .				

For additional sample history, go to: [my.cat.com](https://my.cat.com)

CONDITION / CONTAMINATION					
		14-Aug-23	05-May-22	05-May-21	05-Nov-20
VISCOSITY (CENTISTOKES) ASTM D445					
V100	Viscosity at 100 C	12.10	11.90	12.7	12.4

VISCOSITY (CENTISTOKES) ASTM D445					
V40	Viscosity at 40 C	85.64	87.02	91.6	91.8

WEAR LEVELS / ADDITIVES					
		14-Aug-23	05-May-22	05-May-21	05-Nov-20
ELEMENTAL ANALYSIS (PPM) ASTM D5185 [OIL] / ASTM D6130 [COOLANT]					
Cu	Copper	1	2	1	1
Fe	Iron	5	16	8	10
Cr	Chromium	1	4	1	1
Al	Aluminum	1	3	1	2
Pb	Lead	0	1	1	0
Sn	Tin	0	0	0	1
Si	Silicon	3	7	3	3
Na	Sodium	3	3	4	3
K	Potassium	2	2	5	1
Mo	Molybdenum	0	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	2059	2265	2195	2464
P	Phosphorus	805	889	834	961
Zn	Zinc	928	1034	1017	1127
Mg	Magnesium	11	10	11	11
Ba	Barium	0	0	0	0
B	Boron	2	2	0	1

VISCOSITY INDEX					
VI	Viscosity Index	135	129	135	130

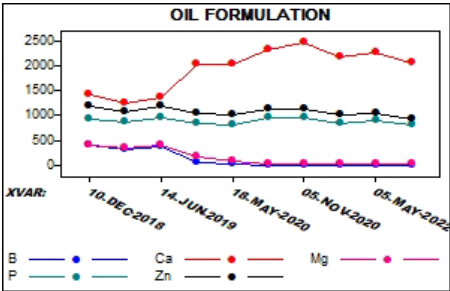
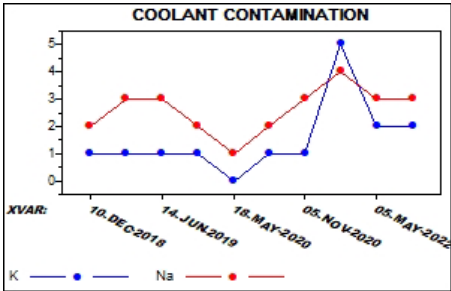
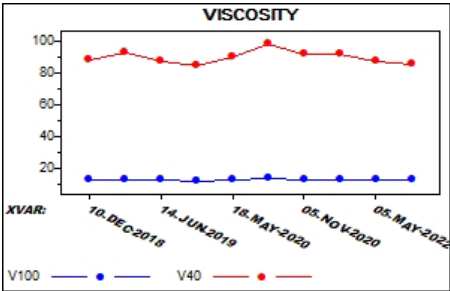
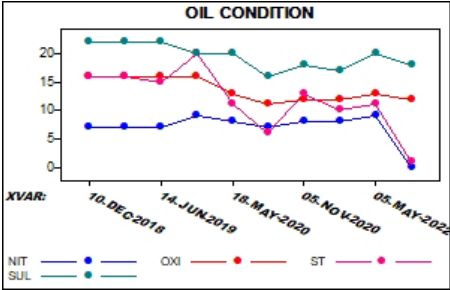
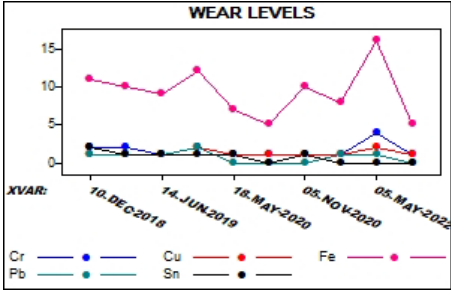
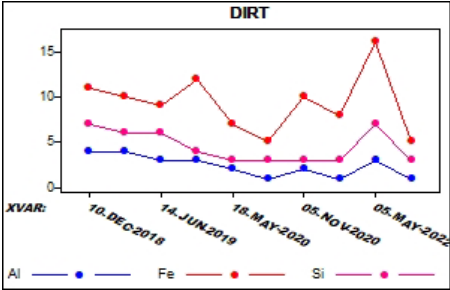
INFRARED (UFM) ASTM E2412					
ST	Soot	1	11	10	13
OXI	Oxidation	12	13	12	12
SUL	Sulfur Products	18	20	17	18
NIT	Nitration	0	9	8	8

WATER - HOTPLATE					
W	Water	N	N	N	N

FUEL DILUTION (SCREEN)					
F	Fuel	N	N	N	N

FUEL DILUTION (%) ASTM D7593					
PFc	Percent Fuel	4.35	5.46	3.65	3.97

CLEANLINESS					
		14-Aug-23	05-May-22	05-May-21	05-Nov-20
FERROUS DEBRIS					
PQI	PQ Index	0	0	6	8



Report Comment

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ENGINE TRUCK

EQUIP NUM: TK47

SERIAL NUMBER: 299319

T010-52126-0208

SAMPLE SHIP TIME (days) : 1

WHELANS GROUP

INVESTMENTS PTY LTD

RECEIVED DATE: 06-May-22



Monitor Compartment

LOW OIL VISCOSITY AND FUEL TEST INDICATES A MODERATELY HIGH LEVEL OF FUEL DILUTION. MONITOR COMPARTMENT FOR RISING OIL LEVEL. CHROME LEVELS ARE ELEVATED. CHECK FILTER MEDIUM AND SCREENS FOR WEAR MATERIAL AND CONTAMINATION. CHECK & ENSURE THIS COMPARTMENT OPERATING CORRECTLY. WE WILL MONITOR ACTIVITY OVER THE NEXT FEW SAMPLES. AFTER INSPECTION RESAMPLE AT THE NEXT SERVICE INTERVAL TO RE-EVALUATE CONDITION .

Interp By: Tom Cokalis

Interpreted On: 23-May-22

SAMPLE INFORMATION



	05-May-22	05-May-21	05-Nov-20	04-Aug-20
Sampled Date	05-May-22	05-May-21	05-Nov-20	04-Aug-20
Sample Id	T010-52126-0208	T010-51131-0108	T010-50321-0207	T010-50219-0417
Lab Date	06-May-22	11-May-21	16-Nov-20	06-Aug-20
Meter [Hr]	590000	583000	674000	563000
Meter On Fluid	10000	10000	111000	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	Y	Y	Y	Y
Filter Change	Y	Y	Y	Y
Make Up Fluid [L]		0	0	0

PREVIOUS SAMPLE

OIL CONDITION SATISFACTORY, CONTINUE SAMPLING AT THE RECOMMENDED INTERVAL.

For additional sample history, go to: [my.cat.com](https://my.cat.com)

CONDITION / CONTAMINATION

		05-May-22	05-May-21	05-Nov-20	04-Aug-20
<strong>VISCOSITY (CENTISTOKES) ASTM D445</strong>					
V100	Viscosity at 100 C	11.90	12.7	12.4	13.1
<strong>VISCOSITY (CENTISTOKES) ASTM D445</strong>					
V40	Viscosity at 40 C	87.02	91.6	91.8	97.7

WEAR LEVELS / ADDITIVES

05-May-22 05-May-21 05-Nov-20 04-Aug-20

<strong>ELEMENTAL ANALYSIS (PPM) ASTM D5185 [OIL] / ASTM D6130 [COOLANT]</strong>				
Cu	Copper	2	1	1
Fe	Iron	16	8	10
Cr	Chromium	4	1	1
Al	Aluminum	3	1	2
Pb	Lead	1	1	0
Sn	Tin	0	0	1
Si	Silicon	7	3	3
Na	Sodium	3	4	3
K	Potassium	2	5	1
Mo	Molybdenum	1	1	0
Ni	Nickel	0	0	0
Ag	Silver	0	0	0
Ti	Titanium	0	0	0
V	Vanadium	0	0	0
Mn	Manganese	0	0	0
Cd	Cadmium	0	0	0
Ca	Calcium	2265	2195	2464
P	Phosphorus	889	834	961
Zn	Zinc	1034	1017	1127
Mg	Magnesium	10	11	23
Ba	Barium	0	0	0
B	Boron	2	0	1

VISCOSITY INDEX

VI	Viscosity Index	129	135	130	132
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INFRARED (UFM) ASTM E2412

ST	Soot	11	10	13	6
OXI	Oxidation	13	12	12	11
SUL	Sulfur Products	20	17	18	16
NIT	Nitration	9	8	8	7

WATER - HOTPLATE

W	Water	N	N	N	N
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FUEL DILUTION (SCREEN)

F	Fuel	N	N	N	N
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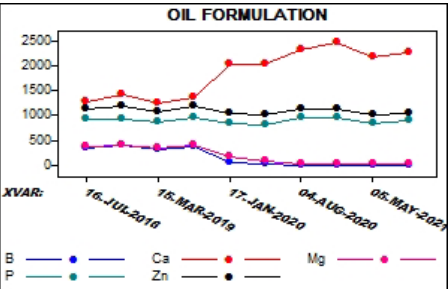
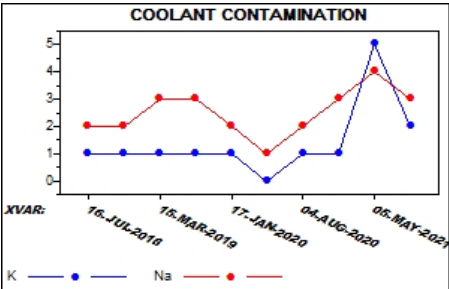
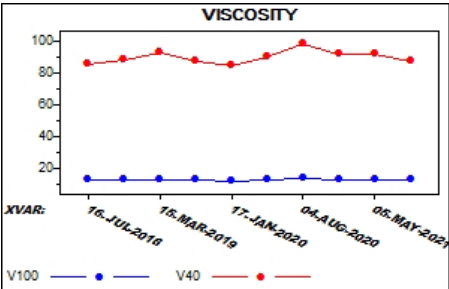
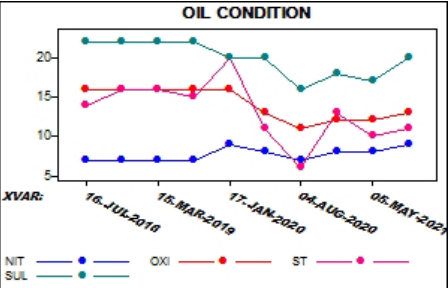
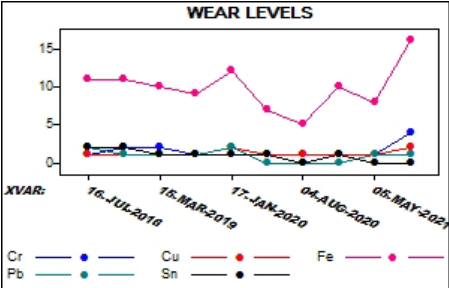
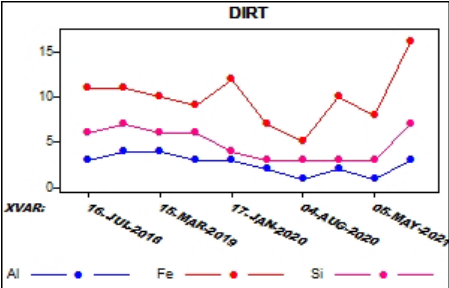
FUEL DILUTION (%) ASTM D7593

PFc	Percent Fuel	5.46	3.65	3.97	
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CLEANLINESS

		05-May-22	05-May-21	05-Nov-20	04-Aug-20
<strong>FERROUS DEBRIS</strong>					
PQI	PQ Index	0	6	8	6





**REPORT COMMENT**

Our sample reports has been updated! For more information on the new report, go to - <https://www.youtube.com/watch?v=4h8bREJvUrs>

## ENGINE TRUCK

EQUIP NUM: TK47

SERIAL NUMBER: 299319

ISUZU FRR\_ISUZU



No Action Required

OIL CONDITION SATISFACTORY, CONTINUE SAMPLING AT THE RECOMMENDED INTERVAL.

T010-51131-0108

LABEL#:

SHOP JOB NUM :

SAMPLE SHIP TIME (days) : 6

WHELANS GROUP

INVESTMENTS PTY LTD

Interp By: Barry Swindells

Interpreted On: 21-May-21

## SAMPLE INFORMATION

	05-May-21	05-Nov-20	04-Aug-20	18-May-20
Sample Date	05-May-21	05-Nov-20	04-Aug-20	18-May-20
Sample Id	T010-51131-0108	T010-50321-0207	T010-50219-0417	T010-50142-0144
Lab Date	11-May-21	16-Nov-20	06-Aug-20	21-May-20
Meter [Hr]	583000	674000	563000	557000
Meter On Fluid	10000	111000	10000	11000
Fluid Brand	FUCHS	FUCHS	FUCHS	FUCHS
Fluid Weight	15W-40	15W-40	15W-40	15W-40
Fluid Type	CARGO	CARGO	CARGO	CARGO
Fluid Change	Y	Y	Y	N
Filter Change	Y	Y	Y	N
Make Up Fluid [L]	0	0	0	0

## PREVIOUS SAMPLE

OIL	CONDITION	SATISFACTORY,	CONTINUE	SAMPLING	AT THE
					RECOMMENDED INTERVAL.

For additional sample history, go to:

[my.cat.com](http://my.cat.com)

## CONDITION / CONTAMINATION

		05-May-21	05-Nov-20	04-Aug-20	18-May-20
<b>VISCOSITY (CENTISTOKES) ASTM D445</b>					
V100	Viscosity at 100 C	12.7	12.4	13.1	12.2

<b>VISCOSITY (CENTISTOKES) ASTM D445</b>					
V40	Viscosity at 40 C	91.6	91.8	97.7	89.7

<b>VISCOSITY INDEX</b>					
VI	Viscosity Index	135	130	132	130

<b>INFRARED (UFM) ASTM E2412</b>					
ST	Soot	10	13	6	11
OXI	Oxidation	12	12	11	13
SUL	Sulfur Products	17	18	16	20
NIT	Nitration	8	8	7	8

<b>WATER - HOTPLATE</b>					
W	Water	N	N	N	N

<b>FUEL DILUTION (SCREEN)</b>					
F	Fuel	N	N	N	N

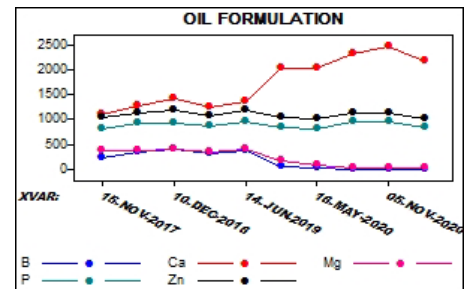
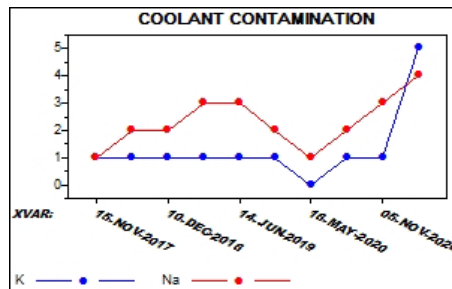
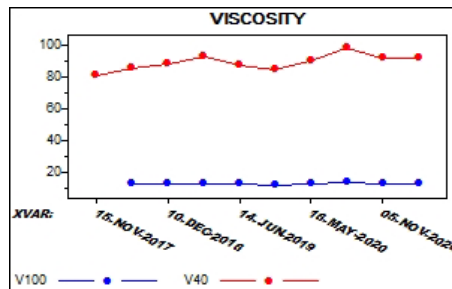
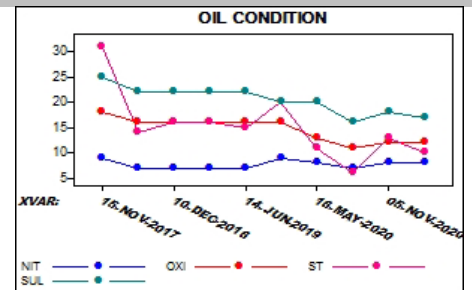
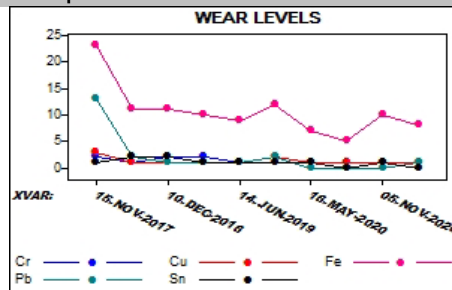
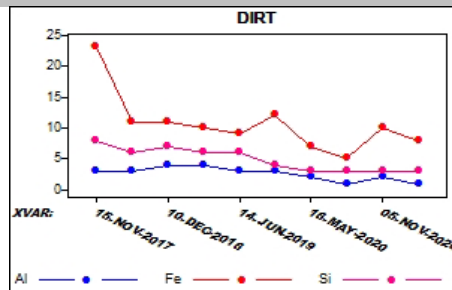
<b>FUEL DILUTION (%) ASTM D7593</b>					
PFc	Percent Fuel	3.65	3.97		4.15

## CLEANLINESS

		05-May-21	05-Nov-20	04-Aug-20	18-May-20
<b>FERROUS DEBRIS</b>					
PQI	PQ Index	6	8	6	5

## WEAR LEVELS / ADDITIVES

		05-May-21	05-Nov-20	04-Aug-20	18-May-20
<b>ELEMENTAL ANALYSIS (PPM) ASTM D5185 [OIL] / ASTM D6130 [COOLANT]</b>					
Cu	Copper	1	1	1	1
Fe	Iron	8	10	5	7
Cr	Chromium	1	1	1	1
Al	Aluminum	1	2	1	2
Pb	Lead	1	0	0	0
Sn	Tin	0	1	0	1
Si	Silicon	3	3	3	3
Na	Sodium	4	3	2	1
K	Potassium	5	1	1	0
Mo	Molybdenum	1	0	2	8
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	2195	2464	2341	2038
P	Phosphorus	834	961	943	809
Zn	Zinc	1017	1127	1116	1005
Mg	Magnesium	11	11	23	86
Ba	Barium	0	0	0	0
B	Boron	0	1	2	12

**REPORT COMMENT**

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

PHONE: 03 9566 0666

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

## CONTACT INFORMATION

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AUS 3875  
PHONE: 5152 2844  
FAX:  
Email: workshop@whelansgroup.com.au

## EQUIPMENT

CUSTOMER EQUIP NUM : TK47  
SERIAL NUMBER : 299319  
MODEL : FRR\_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) : 6  
SAMPLE LOCATION : BAIRNSDALE

Interp By: Tom Cokalis

### Action Required

FUEL DILUTION OF 6.3% IS OVER THE CATERPILLAR LIMIT OF 6% BY VOLUME IN OIL. CHECK WITH ENGINE MANUFACTURER FOR THE MAXIMUM ALLOWABLE FUEL DILUTION PERCENTAGE. WEAR METAL LEVELS ARE ACCEPTABLE. INVESTIGATE THE CAUSE OF FUEL DILUTION THEN RESAMPLE AT THE NEXT RECOMMENDED SERVICE INTERVAL.

LAB #

T010-50023-0205

### WEAR/CONTAMINATION - ADDITIVES/FORMULATION

SAMPLE DATE	SAMPLE ID	METER ( KM )	METER ON FLUID	FLUID CHANGE	FILTER CHANGE	Cu	Fe	Cr	Al	Pb	Sn	Si	Na	K	Mo	Ni	Ag	Ti	V	Mn	Cd	Ca	P	Zn	Mg	B
17-Jan-20	T010-50023-0205	546000	12640	Y	Y	2	12	2	3	2	<1	4	2	<1	19	<1	<1	<1	<1	<1	<1	2046	834	1033	167	39
14-Jun-19	T010-49169-0826	533360	8312	Y	Y	<1	9	1	3	<1	<1	6	3	<1	90	<1	<1	<1	<1	<1	<1	1360	947	1177	395	357
15-Mar-19	T010-49080-0622	525048	10000	Y	Y	<1	10	2	4	<1	<1	6	3	1	84	<1	<1	<1	<1	<1	<1	1232	879	1068	352	320
10-Dec-18	T010-48348-0621	515000	10000	Y	Y	1	11	2	4	<1	2	7	2	1	86	<1	<1	<1	<1	<1	<1	1408	931	1182	385	384

### OIL FORMULATION - OIL CONDITION - OIL CONTAMINATION

SAMPLE DATE	SAMPLE ID	FLUID BRAND	FLUID TYPE	FLUID WEIGHT	FLUID CHANGE	FILTER CHANGE	V100	V40	VI	ST	OXI	SUL	NIT	W	F	PFc
17-Jan-20	T010-50023-0205	FUCHS	CARGO	15W-40	Y	Y	11.8	84.8	131	20	16	20	9	N	P	6.31
14-Jun-19	T010-49169-0826	FUCHS	CARGO	15W-40	Y	Y	12.1	86.8	133	15	16	22	7	N	N	4.55
15-Mar-19	T010-49080-0622	FUCHS	CARGO	15W-40	Y	Y	12.5	92.8	130	16	16	22	7	N	N	
10-Dec-18	T010-48348-0621	FUCHS	CARGO	15W-40	Y	Y	12.7	87.9	142	16	16	22	7	N	N	4.31

### OIL CLEANLINESS

SAMPLE DATE	SAMPLE ID	FLUID CHANGE	FILTER CHANGE	PQI
17-Jan-20	T010-50023-0205	Y	Y	2
14-Jun-19	T010-49169-0826	Y	Y	1
15-Mar-19	T010-49080-0622	Y	Y	2
10-Dec-18	T010-48348-0621	Y	Y	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, 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 Index, W = Water, Zn = Zinc

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 a component thereof.

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## EQUIPMENT

EQUIP NUM: TK47  
SERIAL NUMBER: 299319  
MODEL : FRR\_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) : 2  
SAMPLE LOCATION : WORKSHOP

Interp By: Barry Swindells

**No Action Required**

OIL CONDITION SATISFACTORY, CONTINUE SAMPLING AT THE RECOMMENDED INTERVAL.

LAB #

T010-50219-0417

### WEAR/CONTAMINATION - ADDITIVES/FORMULATION

SAMPLE DATE	SAMPLE ID	METER ( KM )	METER ON FLUID	FLUID CHANGE	FILTER CHANGE	Cu	Fe	Cr	Al	Pb	Sn	Si	Na	K	Mo	Ni	Ag	Ti	V	Mn	Cd	Ca	P	Zn	Mg	Ba	B
04-Aug-20	T010-50219-0417	563000	10000	Y	Y	1	5	1	1	0	0	3	2	1	2	0	0	0	0	0	0	2341	943	1116	23	0	2
18-May-20	T010-50142-0144	557000	11000	N	N	1	7	1	2	0	1	3	1	0	8	0	0	0	0	0	2038	809	1005	86	0	12	
17-Jan-20	T010-50023-0205	546000	12640	Y	Y	2	12	2	3	2	<1	4	2	<1	19	<1	<1	<1	<1	<1	<1	2046	834	1033	167		39
14-Jun-19	T010-49169-0826	533360	8312	Y	Y	<1	9	1	3	<1	<1	6	3	<1	90	<1	<1	<1	<1	<1	<1	1360	947	1177	395		357

### OIL FORMULATION - OIL CONDITION - OIL CONTAMINATION

SAMPLE DATE	SAMPLE ID	FLUID BRAND	FLUID TYPE	FLUID WEIGHT	FLUID CHANGE	FILTER CHANGE	V100	V40	VI	ST	OXI	SUL	NIT	W	F	PFc
04-Aug-20	T010-50219-0417	FUCHS	CARGO	15W-40	Y	Y	13.1	97.7	132	6	11	16	7	N	N	
18-May-20	T010-50142-0144	FUCHS	CARGO	15W-40	N	N	12.2	89.7	130	11	13	20	8	N	N	4.15
17-Jan-20	T010-50023-0205	FUCHS	CARGO	15W-40	Y	Y	11.8	84.8	131	20	16	20	9	N	P	6.31
14-Jun-19	T010-49169-0826	FUCHS	CARGO	15W-40	Y	Y	12.1	86.8	133	15	16	22	7	N	N	4.55

### OIL CLEANLINESS

SAMPLE DATE	SAMPLE ID	FLUID CHANGE	FILTER CHANGE	PQI
04-Aug-20	T010-50219-0417	Y	Y	6
18-May-20	T010-50142-0144	N	N	5
17-Jan-20	T010-50023-0205	Y	Y	2
14-Jun-19	T010-49169-0826	Y	Y	1

Ag = Silver, Al = Aluminum, B = Boron, Ba = Barium, 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, Pb = Lead, ST = Soot, SUL = Sulfation, Si = Silicon, Sn = Tin, Ti = Titanium, V = Vanadium, V100 = Viscosity@100C, V40 = Viscosity@40C, VI = Viscosity Index, W = Water, Zn = Zinc

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## EQUIPMENT

EQUIP NUM: TK47  
SERIAL NUMBER: 299319  
MODEL : FRR\_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) : 11  
SAMPLE LOCATION : WORKSHOP

Interp By: Barry Swindells

**No Action Required**

OIL CONDITION SATISFACTORY, CONTINUE SAMPLING AT THE RECOMMENDED INTERVAL.

LAB #

T010-50321-0207

### WEAR/CONTAMINATION - ADDITIVES/FORMULATION

SAMPLE DATE	SAMPLE ID	METER ( KM )	METER ON FLUID	FLUID CHANGE	FILTER CHANGE	Cu	Fe	Cr	Al	Pb	Sn	Si	Na	K	Mo	Ni	Ag	Ti	V	Mn	Cd	Ca	P	Zn	Mg	Ba	B
05-Nov-20	T010-50321-0207	674000	111000	Y	Y	1	10	1	2	0	1	3	3	1	0	0	0	0	0	0	0	2464	961	1127	11	0	1
04-Aug-20	T010-50219-0417	563000	10000	Y	Y	1	5	1	1	0	0	3	2	1	2	0	0	0	0	0	0	2341	943	1116	23	0	2
18-May-20	T010-50142-0144	557000	11000	N	N	1	7	1	2	0	1	3	1	0	8	0	0	0	0	0	0	2038	809	1005	86	0	12
17-Jan-20	T010-50023-0205	546000	12640	Y	Y	2	12	2	3	2	<1	4	2	<1	19	<1	<1	<1	<1	<1	<1	2046	834	1033	167		39

### OIL FORMULATION - OIL CONDITION - OIL CONTAMINATION

SAMPLE DATE	SAMPLE ID	FLUID BRAND	FLUID TYPE	FLUID WEIGHT	FLUID CHANGE	FILTER CHANGE	V100	V40	VI	ST	OXI	SUL	NIT	W	F	PFc
05-Nov-20	T010-50321-0207	FUCHS	CARGO	15W-40	Y	Y	12.4	91.8	130	13	12	18	8	N	N	3.97
04-Aug-20	T010-50219-0417	FUCHS	CARGO	15W-40	Y	Y	13.1	97.7	132	6	11	16	7	N	N	
18-May-20	T010-50142-0144	FUCHS	CARGO	15W-40	N	N	12.2	89.7	130	11	13	20	8	N	N	4.15
17-Jan-20	T010-50023-0205	FUCHS	CARGO	15W-40	Y	Y	11.8	84.8	131	20	16	20	9	N	P	6.31

### OIL CLEANLINESS

SAMPLE DATE	SAMPLE ID	FLUID CHANGE	FILTER CHANGE	PQI
05-Nov-20	T010-50321-0207	Y	Y	8
04-Aug-20	T010-50219-0417	Y	Y	6
18-May-20	T010-50142-0144	N	N	5
17-Jan-20	T010-50023-0205	Y	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, Mn = Manganese, Mo = Molybdenum, NIT = Nitration, Na = Sodium, Ni = Nickel, OXI = Oxidation, P = Phosphorus, PFC = Percent Fuel Content, PQI = Particle Quantifying index, ST = Soot, SUL = Sulfation, Si = Silicon, Sn = Tin, Ti = Titanium, V = Vanadium, V100 = Viscosity@100C, V40 = Viscosity@40C, VI = Viscosity Index, W = Water, Zn = Zinc

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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

## EQUIPMENT

CUSTOMER EQUIP NUM : TK48  
SERIAL NUMBER : TK48\_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 : WORKSHOP

Interp By: Barry Swindells

### Action Required

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

LAB #

T010-50062-0350

### WEAR/CONTAMINATION - ADDITIVES/FORMULATION

SAMPLE DATE	SAMPLE ID	METER ( KM )	METER ON FLUID	FLUID CHANGE	FILTER CHANGE	Cu	Fe	Cr	Al	Pb	Sn	Si	Na	K	Mo	Ni	Ag	Ti	V	Mn	Cd	Ca	P	Zn	Mg	B
25-Feb-20	T010-50062-0350	564712	10000	Y	Y	<1	10	1	1	<1	<1	4	<1	2	2	<1	<1	<1	<1	<1	<1	2222	810	997	16	7
27-Aug-19	T010-49246-0722	553000	10000	Y	Y	<1	8	1	2	<1	<1	4	4	1	12	<1	<1	<1	<1	<1	<1	2166	808	1031	58	45
28-May-19	T010-49155-0111	544000	10000	Y	Y	1	11	2	4	<1	<1	7	3	<1	77	<1	<1	<1	1	<1	<1	1116	801	1014	320	293
30-Jan-19	T010-49035-0220	535000	11000	Y	Y	<1	12	2	4	2	2	9	2	<1	80	<1	<1	<1	<1	<1	<1	1279	872	1140	380	337

### OIL FORMULATION - OIL CONDITION - OIL CONTAMINATION

SAMPLE DATE	SAMPLE ID	FLUID BRAND	FLUID TYPE	FLUID WEIGHT	FLUID CHANGE	FILTER CHANGE	V100	V40	VI	ST	OXI	SUL	NIT	W	F	PFc
25-Feb-20	T010-50062-0350	FUCHS	CARGO	15W-40	Y	Y	11.7	84.4	130	28	13	20	9	N	P	6.25
27-Aug-19	T010-49246-0722	FUCHS	CARGO	15W-40	Y	Y	12.0	87.7	130	20	12	19	8	N	N	5.19
28-May-19	T010-49155-0111	FUCHS	CARGO	15W-40	Y	Y	11.7	82.9	133	28	16	22	7	N	N	4.57
30-Jan-19	T010-49035-0220	FUCHS	CARGO	15W-40	Y	Y	12.5	86.0	142	26	16	21	7	N	P	6.04

### OIL CLEANLINESS

SAMPLE DATE	SAMPLE ID	FLUID CHANGE	FILTER CHANGE	PQI
25-Feb-20	T010-50062-0350	Y	Y	3
27-Aug-19	T010-49246-0722	Y	Y	1
28-May-19	T010-49155-0111	Y	Y	2
30-Jan-19	T010-49035-0220	Y	Y	0

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@100C, V40 = Viscosity@40C, VI = Viscosity Index, W = Water, Zn = Zinc

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# William Adams



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PHONE: 03 9566 0666

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## CONTACT INFORMATION

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103 RUPERT ST  
BAIRNSDALE, VIC  
AUS 3875  
PHONE: 5152 2844  
FAX:  
Email: workshop@whelansgroup.com.au

## EQUIPMENT

CUSTOMER EQUIP NUM : TK47  
SERIAL NUMBER : 299319  
MODEL : FRR\_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 : WORKSHOP

Interp By: Barry Swindells

**Monitor  
Compartment**

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

LAB #

T010-49169-0826

### WEAR/CONTAMINATION - ADDITIVES/FORMULATION

SAMPLE DATE	SAMPLE ID	METER ( KM )	METER ON FLUID	FLUID CHANGE	FILTER CHANGE	Cu	Fe	Cr	Al	Pb	Sn	Si	Na	K	Mo	Ni	Ag	Ti	V	Mn	Cd	Ca	P	Zn	Mg	B
14-Jun-19	T010-49169-0826	533360	8312	Y	Y	<1	9	1	3	<1	<1	6	3	<1	90	<1	<1	<1	<1	<1	<1	1360	947	1177	395	357
15-Mar-19	T010-49080-0622	525048	10000	Y	Y	<1	10	2	4	<1	<1	6	3	1	84	<1	<1	<1	<1	<1	<1	1232	879	1068	352	320
10-Dec-18	T010-48348-0621	515000	10000	Y	Y	1	11	2	4	<1	2	7	2	1	86	<1	<1	<1	<1	<1	<1	1408	931	1182	385	384
16-Jul-18	T010-48199-0115	502494	10000	Y	Y	1	11	1	3	2	2	6	2	<1	83	<1	<1	<1	<1	<1	<1	1287	937	1138	354	337

### OIL FORMULATION - OIL CONDITION - OIL CONTAMINATION

SAMPLE DATE	SAMPLE ID	FLUID BRAND	FLUID TYPE	FLUID WEIGHT	FLUID CHANGE	FILTER CHANGE	V100	V40	VI	ST	OXI	SUL	NIT	W	F	PFc
14-Jun-19	T010-49169-0826	FUCHS	CARGO	15W-40	Y	Y	12.1	86.8	133	15	16	22	7	N	N	4.55
15-Mar-19	T010-49080-0622	FUCHS	CARGO	15W-40	Y	Y	12.5	92.8	130	16	16	22	7	N	N	
10-Dec-18	T010-48348-0621	FUCHS	CARGO	15W-40	Y	Y	12.7	87.9	142	16	16	22	7	N	N	4.31
16-Jul-18	T010-48199-0115	FUCHS	CARGO	15W-40	Y	Y	12.1	85.0	137	14	16	22	7	N	N	3.45

### OIL CLEANLINESS

SAMPLE DATE	SAMPLE ID	FLUID CHANGE	FILTER CHANGE	PQI
14-Jun-19	T010-49169-0826	Y	Y	1
15-Mar-19	T010-49080-0622	Y	Y	2
10-Dec-18	T010-48348-0621	Y	Y	2
16-Jul-18	T010-48199-0115	Y	Y	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@100C, V40 = Viscosity@40C, VI = Viscosity Index, W = Water, Zn = Zinc

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## CONTACT INFORMATION

MARCUS LUCHETTA  
WHELANS GROUP INVESTMENTS

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Email: workshop@whelansgroup.com.au

Interp By: Barry Swindells

## EQUIPMENT

CUSTOMER EQUIP NUM : TK47  
SERIAL NUMBER : 299319  
MODEL : FRR\_ISUZU  
MANUFACTURER : ISUZU  
COMPANY NAME : WHELANS GROUP INVESTMENTS PTY LTC  
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 : WORKSHOP

### Monitor Compartment

SILICON IS SLIGHTLY HIGH. POSSIBLE FUEL DILUTION OCCURING, LEVELS MAY BE ACCEPTABLE DUE TO RECENT REPAIRS. SUGGEST CUT OPEN FILTER(S) AND INSPECT FOR DEBRIS. CHECK & ENSURE THIS COMPARTMENT OPERATING CORRECTLY. MONITOR COMPARTMENT FOR RISING OIL LEVEL. AS THE OIL HAS BEEN CHANGED. CHECK FOR LEAKS. WE WILL MONITOR ACTIVITY OVER THE NEXT FEW SAMPLES. RESAMPLE AT HALF THE RECOMMENDED INTERVAL TO MONITOR. MORE SAMPLES NEEDED TO DEVELOP A TREND.

LAB #  
T010-46300-0422

### WEAR/CONTAMINATION - ADDITIVES/FORMULATION

SAMPLE DATE	SAMPLE ID	METER	METER ON FLUID	FLUID CHANGE	FILTER CHANGE	OVERALL EVAL	Cu	Fe	Cr	Al	Pb	Sn	Si	Na	K	Mo	Ni	Ag	Ti	V	Mn	Cd	Ca	P	Zn	Mg	B
21-Oct-2016	T010-46300-0422	440000	10000	Y	Y	MC	2	18	1	3	<1	<1	32	1	<1	76	<1	<1	<1	<1	<1	<1	1148	815	1055	310	315

### OIL FORMULATION - OIL CONDITION - OIL CONTAMINATION

SAMPLE DATE	SAMPLE ID	FLUID BRAND	FLUID TYPE	FLUID WEIGHT	FLUID CHANGE	FILTER CHANGE	OVERALL EVAL	V40	ST	OXI	SUL	NIT	W	F	PFc
21-Oct-2016	T010-46300-0422	FUCHS	CARGO	15W-40	Y	Y	MC	79.9	13	16	23	7	N	N	2.34

### OIL CLEANLINESS

SAMPLE DATE	SAMPLE ID	FLUID CHANGE	FILTER CHANGE	OVERALL EVAL	PQI
21-Oct-2016	T010-46300-0422	Y	Y	MC	8

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, V40 = Viscosity@40C, W = Water, Zn = Zinc

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## CONTACT INFORMATION

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AUS 3875  
PHONE: 5152 2844  
FAX:  
Email: workshop@whelansgroup.com.au

## EQUIPMENT

CUSTOMER EQUIP NUM : TK47  
SERIAL NUMBER : 299319  
MODEL : FRR\_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) : 6  
SAMPLE LOCATION : WORKSHOP

Interp By: Tom Cokalis

**No Action Required**

OIL CONDITION SATISFACTORY, CONTINUE SAMPLING AT THE RECOMMENDED INTERVAL.

LAB #

T010-49080-0622

### WEAR/CONTAMINATION - ADDITIVES/FORMULATION

SAMPLE DATE	SAMPLE ID	METER ( KM )	METER ON FLUID	FLUID CHANGE	FILTER CHANGE	Cu	Fe	Cr	Al	Pb	Sn	Si	Na	K	Mo	Ni	Ag	Ti	V	Mn	Cd	Ca	P	Zn	Mg	B
15-Mar-19	T010-49080-0622	525048	10000	Y	Y	<1	10	2	4	<1	<1	6	3	1	84	<1	<1	<1	<1	<1	<1	1232	879	1068	352	320
10-Dec-18	T010-48348-0621	515000	10000	Y	Y	1	11	2	4	<1	2	7	2	1	86	<1	<1	<1	<1	<1	<1	1408	931	1182	385	384
16-Jul-18	T010-48199-0115	502494	10000	Y	Y	1	11	1	3	2	2	6	2	<1	83	<1	<1	<1	<1	<1	<1	1287	937	1138	354	337
15-Nov-17	T010-47321-0421	477000	10000	Y	Y	3	23	2	3	13	<1	8	1	1	81	<1	<1	<1	<1	<1	<1	1113	809	1044	357	235

### OIL FORMULATION - OIL CONDITION - OIL CONTAMINATION

SAMPLE DATE	SAMPLE ID	FLUID BRAND	FLUID TYPE	FLUID WEIGHT	FLUID CHANGE	FILTER CHANGE	V100	V40	VI	ST	OXI	SUL	NIT	W	F	PFc
15-Mar-19	T010-49080-0622	FUCHS	CARGO	15W-40	Y	Y	12.5	92.8	130	16	16	22	7	N	N	
10-Dec-18	T010-48348-0621	FUCHS	CARGO	15W-40	Y	Y	12.7	87.9	142	16	16	22	7	N	N	4.31
16-Jul-18	T010-48199-0115	FUCHS	CARGO	15W-40	Y	Y	12.1	85.0	137	14	16	22	7	N	N	3.45
15-Nov-17	T010-47321-0421	FUCHS	CARGO	15W-40	Y	Y		80.8		31	18	25	9	N	N	4.11

### OIL CLEANLINESS

SAMPLE DATE	SAMPLE ID	FLUID CHANGE	FILTER CHANGE	PQI
15-Mar-19	T010-49080-0622	Y	Y	2
10-Dec-18	T010-48348-0621	Y	Y	2
16-Jul-18	T010-48199-0115	Y	Y	1
15-Nov-17	T010-47321-0421	Y	Y	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, 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 Index, W = Water, Zn = Zinc

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## EQUIPMENT

CUSTOMER EQUIP NUM : TK47  
SERIAL NUMBER : 299319  
MODEL : FRR\_ISUZU  
MANUFACTURER : ISUZU  
COMPANY NAME : WHELANS GROUP INVESTMENTS PTY LTC  
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 :

Interp By: Tom Cokalis

### Monitor Compartment

FUEL TEST INDICATES 5.4% BY VOLUME OF FUEL DILUTION. CHECK WITH ENGINE MANUFACTURER FOR THE MAXIMUM ALLOWABLE FUEL DILUTION PERCENTAGE. MONITOR IDLE TIME. MONITOR COMPARTMENT FOR RISING OIL LEVEL. ALL OTHER TEST RESULTS APPEAR ACCEPTABLE. WE WILL MONITOR ACTIVITY OVER THE NEXT FEW SAMPLES. CONTINUE SAMPLING AT THE RECOMMENDED INTERVAL.

LAB #

T010-47024-0429

### WEAR/CONTAMINATION - ADDITIVES/FORMULATION

SAMPLE DATE	SAMPLE ID	METER	METER ON FLUID	FLUID CHANGE	FILTER CHANGE	OVERALL EVAL	Cu	Fe	Cr	Al	Pb	Sn	Si	Na	K	Mo	Ni	Ag	Ti	V	Mn	Cd	Ca	P	Zn	Mg	B
17-Jan-2017	T010-47024-0429	449567	9567	Y	Y	MC	1	10	1	3	<1	<1	12	6	1	86	<1	<1	<1	<1	<1	<1	1264	942	1129	369	356
21-Oct-2016	T010-46300-0422	440000	10000	Y	Y	MC	2	18	1	3	<1	<1	32	1	<1	76	<1	<1	<1	<1	<1	<1	1148	815	1055	310	315

### OIL FORMULATION - OIL CONDITION - OIL CONTAMINATION

SAMPLE DATE	SAMPLE ID	FLUID BRAND	FLUID TYPE	FLUID WEIGHT	FLUID CHANGE	FILTER CHANGE	OVERALL EVAL	V40	ST	OXI	SUL	NIT	W	F	PFc
17-Jan-2017	T010-47024-0429	FUCHS	CARGO	15W-40	Y	Y	MC	84.8	9	16	21	6	N	N	5.38
21-Oct-2016	T010-46300-0422	FUCHS	CARGO	15W-40	Y	Y	MC	79.9	13	16	23	7	N	N	2.34

### OIL CLEANLINESS

SAMPLE DATE	SAMPLE ID	FLUID CHANGE	FILTER CHANGE	OVERALL EVAL	PQI
17-Jan-2017	T010-47024-0429	Y	Y	MC	7
21-Oct-2016	T010-46300-0422	Y	Y	MC	8

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, V40 = Viscosity@40C, W = Water, Zn = Zinc

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SERIAL NUMBER : 299319  
MODEL : FRR\_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) : 5  
SAMPLE LOCATION :

Interp By: Tom Cokalis

**No Action Required**

OIL CONDITION SATISFACTORY, CONTINUE SAMPLING AT THE RECOMMENDED INTERVAL.

LAB #

T010-47137-0221

### WEAR/CONTAMINATION - ADDITIVES/FORMULATION

SAMPLE DATE	SAMPLE ID	METER ( KM )	METER ON FLUID	FLUID CHANGE	FILTER CHANGE	OVERALL EVAL	Cu	Fe	Cr	Al	Pb	Sn	Si	Na	K	Mo	Ni	Ag	Ti	V	Mn	Cd	Ca	P	Zn	Mg	B
12-May-17	T010-47137-0221		10000	Y	Y		2	14	2	3	<1	<1	7	8	1	84	<1	<1	<1	1	<1	<1	1235	873	1126	331	336
17-Jan-17	T010-47024-0429	449567	9567	Y	Y		1	10	1	3	<1	<1	12	6	1	86	<1	<1	<1	<1	<1	<1	1264	942	1129	369	356
21-Oct-16	T010-46300-0422	440000	10000	Y	Y		2	18	1	3	<1	<1	32	1	<1	76	<1	<1	<1	<1	<1	<1	1148	815	1055	310	315

### OIL FORMULATION - OIL CONDITION - OIL CONTAMINATION

SAMPLE DATE	SAMPLE ID	FLUID BRAND	FLUID TYPE	FLUID WEIGHT	FLUID CHANGE	FILTER CHANGE	OVERALL EVAL	V40	ST	OXI	SUL	NIT	W	F	PFc
12-May-17	T010-47137-0221	FUCHS	CARGO	15W-40	Y	Y		83.8	16	16	25	7	N	N	4.09
17-Jan-17	T010-47024-0429	FUCHS	CARGO	15W-40	Y	Y		84.8	9	16	21	6	N	N	5.38
21-Oct-16	T010-46300-0422	FUCHS	CARGO	15W-40	Y	Y		79.9	13	16	23	7	N	N	2.34

### OIL CLEANLINESS

SAMPLE DATE	SAMPLE ID	FLUID CHANGE	FILTER CHANGE	OVERALL EVAL	PQI
12-May-17	T010-47137-0221	Y	Y		0
17-Jan-17	T010-47024-0429	Y	Y		7
21-Oct-16	T010-46300-0422	Y	Y		8

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, V40 = Viscosity@40C, W = Water, Zn = Zinc

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SERIAL NUMBER : 299319  
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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 : WORKSHOP

Interp By: Barry Swindells

### Monitor Compartment

IRON & LEAD LEVELS ARE SLIGHTLY ELEVATED, SUGGEST CUT OPEN FILTER(S) AND INSPECT FOR DEBRIS. CHECK & ENSURE THIS COMPARTMENT OPERATING CORRECTLY. AS THE OIL HAS BEEN CHANGED. WE WILL MONITOR ACTIVITY OVER THE NEXT FEW SAMPLES. ALL OTHER TEST RESULTS APPEAR ACCEPTABLE. RESAMPLE AT THE NEXT SERVICE INTERVAL. MORE SAMPLES NEEDED TO DEVELOP A TREND.

LAB #

T010-47321-0421

### WEAR/CONTAMINATION - ADDITIVES/FORMULATION

SAMPLE DATE	SAMPLE ID	METER ( KM )	METER ON FLUID	FLUID CHANGE	FILTER CHANGE	Cu	Fe	Cr	Al	Pb	Sn	Si	Na	K	Mo	Ni	Ag	Ti	V	Mn	Cd	Ca	P	Zn	Mg	B
15-Nov-17	T010-47321-0421	477000	10000	Y	Y	3	23	2	3	13	<1	8	1	1	81	<1	<1	<1	<1	<1	<1	1113	809	1044	357	235
12-May-17	T010-47137-0221		10000	Y	Y	2	14	2	3	<1	<1	7	8	1	84	<1	<1	<1	1	<1	<1	1235	873	1126	331	336
17-Jan-17	T010-47024-0429	449567	9567	Y	Y	1	10	1	3	<1	<1	12	6	1	86	<1	<1	<1	<1	<1	<1	1264	942	1129	369	356
21-Oct-16	T010-46300-0422	440000	10000	Y	Y	2	18	1	3	<1	<1	32	1	<1	76	<1	<1	<1	<1	<1	<1	1148	815	1055	310	315

### OIL FORMULATION - OIL CONDITION - OIL CONTAMINATION

SAMPLE DATE	SAMPLE ID	FLUID BRAND	FLUID TYPE	FLUID WEIGHT	FLUID CHANGE	FILTER CHANGE	V40	ST	OXI	SUL	NIT	W	F	PFc
15-Nov-17	T010-47321-0421	FUCHS	CARGO	15W-40	Y	Y	80.8	31	18	25	9	N	N	4.11
12-May-17	T010-47137-0221	FUCHS	CARGO	15W-40	Y	Y	83.8	16	16	25	7	N	N	4.09
17-Jan-17	T010-47024-0429	FUCHS	CARGO	15W-40	Y	Y	84.8	9	16	21	6	N	N	5.38
21-Oct-16	T010-46300-0422	FUCHS	CARGO	15W-40	Y	Y	79.9	13	16	23	7	N	N	2.34

### OIL CLEANLINESS

SAMPLE DATE	SAMPLE ID	FLUID CHANGE	FILTER CHANGE	PQI
15-Nov-17	T010-47321-0421	Y	Y	1
12-May-17	T010-47137-0221	Y	Y	0
17-Jan-17	T010-47024-0429	Y	Y	7
21-Oct-16	T010-46300-0422	Y	Y	8

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, V40 = Viscosity@40C, W = Water, Zn = Zinc

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 a component thereof.