

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

EQUIPMENT

CUSTOMER EQUIP NUM : TK49
SERIAL NUMBER : TK49_WHELANS
MODEL : FRR 500
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 :

Interp By: Tom Cokalis

No Action Required

OIL CONDITION SATISFACTORY, CONTINUE SAMPLING AT THE RECOMMENDED INTERVAL.

LAB #

T010-47131-0216

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
08-May-17	T010-47131-0216	525457	10000	Y	Y		3	15	4	3	<1	<1	6	2	1	55	<1	<1	<1	1	<1	<1	1206	791	1007	391	214

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
08-May-17	T010-47131-0216	FUCHS	CARGO	15W-40	Y	Y		81.3	21	12	22	7	N	N	2.92

OIL CLEANLINESS

SAMPLE DATE	SAMPLE ID	FLUID CHANGE	FILTER CHANGE	OVERALL EVAL	PQI
08-May-17	T010-47131-0216	Y	Y		5

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.

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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) : 3
SAMPLE LOCATION : WORKSHOP

Interp By: Tom Cokalis

No Action Required

OIL CONDITION SATISFACTORY, CONTINUE SAMPLING AT THE RECOMMENDED INTERVAL.

LAB #

T010-47247-0226

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
01-Sep-17	T010-47247-0226	538500	10000	Y	Y	1	18	4	3	2	<1	6	2	<1	76	<1	<1	<1	<1	<1	<1	1302	825	1088	385	251
08-May-17	T010-47131-0216	525457	10000	Y	Y	3	15	4	3	<1	<1	6	2	1	55	<1	<1	<1	1	<1	<1	1206	791	1007	391	214

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
01-Sep-17	T010-47247-0226	FUCHS	CARGO	15W-40	Y	Y	85.8	31	17	22	8	N	N	4.91
08-May-17	T010-47131-0216	FUCHS	CARGO	15W-40	Y	Y	81.3	21	12	22	7	N	N	2.92

OIL CLEANLINESS

SAMPLE DATE	SAMPLE ID	FLUID CHANGE	FILTER CHANGE	PQI
01-Sep-17	T010-47247-0226	Y	Y	1
08-May-17	T010-47131-0216	Y	Y	5

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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MODEL : FRR 500
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: Tom Cokalis

No Action Required

OIL CONDITION SATISFACTORY, CONTINUE SAMPLING AT THE RECOMMENDED INTERVAL.

LAB #

T010-48031-0116

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
29-Jan-18	T010-48031-0116	550000	11500	Y	Y	2	19	3	4	<1	2	11	3	<1	89	<1	<1	<1	<1	<1	<1	1296	895	1130	417	337
01-Sep-17	T010-47247-0226	538500	10000	Y	Y	1	18	4	3	2	<1	6	2	<1	76	<1	<1	<1	<1	<1	<1	1302	825	1088	385	251
08-May-17	T010-47131-0216	525457	10000	Y	Y	3	15	4	3	<1	<1	6	2	1	55	<1	<1	<1	1	<1	<1	1206	791	1007	391	214

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
29-Jan-18	T010-48031-0116	FUCHS	CARGO	15W-40	Y	Y	86.1	26	19	23	9	N	N	3.23
01-Sep-17	T010-47247-0226	FUCHS	CARGO	15W-40	Y	Y	85.8	31	17	22	8	N	N	4.91
08-May-17	T010-47131-0216	FUCHS	CARGO	15W-40	Y	Y	81.3	21	12	22	7	N	N	2.92

OIL CLEANLINESS

SAMPLE DATE	SAMPLE ID	FLUID CHANGE	FILTER CHANGE	PQI
29-Jan-18	T010-48031-0116	Y	Y	1
01-Sep-17	T010-47247-0226	Y	Y	1
08-May-17	T010-47131-0216	Y	Y	5

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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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 #

T010-48169-0123

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-18	T010-48169-0123	564238	10000	Y	Y	2	13	3	3	3	2	8	3	<1	73	<1	<1	<1	<1	<1	<1	1284	893	1169	511	242
29-Jan-18	T010-48031-0116	550000	11500	Y	Y	2	19	3	4	<1	2	11	3	<1	89	<1	<1	<1	<1	<1	<1	1296	895	1130	417	337
01-Sep-17	T010-47247-0226	538500	10000	Y	Y	1	18	4	3	2	<1	6	2	<1	76	<1	<1	<1	<1	<1	<1	1302	825	1088	385	251
08-May-17	T010-47131-0216	525457	10000	Y	Y	3	15	4	3	<1	<1	6	2	1	55	<1	<1	<1	1	<1	<1	1206	791	1007	391	214

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-18	T010-48169-0123	FUCHS	CARGO	15W-40	Y	Y	12.4	88.2	136	21	17	21	8	N	N	4.22
29-Jan-18	T010-48031-0116	FUCHS	CARGO	15W-40	Y	Y		86.1		26	19	23	9	N	N	3.23
01-Sep-17	T010-47247-0226	FUCHS	CARGO	15W-40	Y	Y		85.8		31	17	22	8	N	N	4.91
08-May-17	T010-47131-0216	FUCHS	CARGO	15W-40	Y	Y		81.3		21	12	22	7	N	N	2.92

OIL CLEANLINESS

SAMPLE DATE	SAMPLE ID	FLUID CHANGE	FILTER CHANGE	PQI
14-Jun-18	T010-48169-0123	Y	Y	0
29-Jan-18	T010-48031-0116	Y	Y	1
01-Sep-17	T010-47247-0226	Y	Y	1
08-May-17	T010-47131-0216	Y	Y	5

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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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 :

Interp By: Barry Swindells

**Monitor
Compartment**

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

LAB #

T010-48250-0128

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
04-Sep-18	T010-48250-0128	574000	14000	Y	Y	1	15	3	4	<1	2	7	2	<1	80	<1	<1	<1	<1	<1	<1	1339	875	1130	413	320
14-Jun-18	T010-48169-0123	564238	10000	Y	Y	2	13	3	3	3	2	8	3	<1	73	<1	<1	<1	<1	<1	<1	1284	893	1169	511	242
29-Jan-18	T010-48031-0116	550000	11500	Y	Y	2	19	3	4	<1	2	11	3	<1	89	<1	<1	<1	<1	<1	<1	1296	895	1130	417	337
01-Sep-17	T010-47247-0226	538500	10000	Y	Y	1	18	4	3	2	<1	6	2	<1	76	<1	<1	<1	<1	<1	<1	1302	825	1088	385	251

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-Sep-18	T010-48250-0128	FUCHS	CARGO	15W-40	Y	Y	12.3	87.8	135	26	17	22	8	N	N	5.47
14-Jun-18	T010-48169-0123	FUCHS	CARGO	15W-40	Y	Y	12.4	88.2	136	21	17	21	8	N	N	4.22
29-Jan-18	T010-48031-0116	FUCHS	CARGO	15W-40	Y	Y		86.1		26	19	23	9	N	N	3.23
01-Sep-17	T010-47247-0226	FUCHS	CARGO	15W-40	Y	Y		85.8		31	17	22	8	N	N	4.91

OIL CLEANLINESS

SAMPLE DATE	SAMPLE ID	FLUID CHANGE	FILTER CHANGE	PQI
04-Sep-18	T010-48250-0128	Y	Y	8
14-Jun-18	T010-48169-0123	Y	Y	0
29-Jan-18	T010-48031-0116	Y	Y	1
01-Sep-17	T010-47247-0226	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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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) : 32
SAMPLE LOCATION : WORK SHOP

Interp By: Barry Swindells

**Monitor
Compartment**

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

LAB #

T010-49008-0518

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
07-Dec-18	T010-49008-0518	591000	10000	Y	Y	<1	13	3	4	<1	2	6	<1	2	78	<1	<1	<1	<1	<1	<1	1275	868	1155	354	304
04-Sep-18	T010-48250-0128	574000	14000	Y	Y	1	15	3	4	<1	2	7	2	<1	80	<1	<1	<1	<1	<1	<1	1339	875	1130	413	320
14-Jun-18	T010-48169-0123	564238	10000	Y	Y	2	13	3	3	3	2	8	3	<1	73	<1	<1	<1	<1	<1	<1	1284	893	1169	511	242
29-Jan-18	T010-48031-0116	550000	11500	Y	Y	2	19	3	4	<1	2	11	3	<1	89	<1	<1	<1	<1	<1	<1	1296	895	1130	417	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
07-Dec-18	T010-49008-0518	FUCHS	CARGO	15W-40	Y	Y	12.6	89.7	137	25	17	23	8	N	N	4.28
04-Sep-18	T010-48250-0128	FUCHS	CARGO	15W-40	Y	Y	12.3	87.8	135	26	17	22	8	N	N	5.47
14-Jun-18	T010-48169-0123	FUCHS	CARGO	15W-40	Y	Y	12.4	88.2	136	21	17	21	8	N	N	4.22
29-Jan-18	T010-48031-0116	FUCHS	CARGO	15W-40	Y	Y		86.1		26	19	23	9	N	N	3.23

OIL CLEANLINESS

SAMPLE DATE	SAMPLE ID	FLUID CHANGE	FILTER CHANGE	PQI
07-Dec-18	T010-49008-0518	Y	Y	4
04-Sep-18	T010-48250-0128	Y	Y	8
14-Jun-18	T010-48169-0123	Y	Y	0
29-Jan-18	T010-48031-0116	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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ENGINE TRUCK

EQUIP NUM: TK49

SERIAL NUMBER: TK49_WHELANS

T010-52277-0416
SAMPLE SHIP TIME (days) : 19
WHELANS GROUP
INVESTMENTS PTY LTD
RECEIVED DATE: 04-Oct-22



Action Required

Interp By: Tom Cokalis
Interpreted On: 06-Oct-22

Customer Note: " oil maybe valvoline E900 15w40" - CHANGES TO THE OIL ADDITIVE LEVELS INDICATE THE OIL TYPE OR GRADE MAY HAVE BEEN CHANGED. CHECK IF OIL TYPE AND GRADE PROVIDED ARE CORRECT. IRON IS SLIGHTLY HIGH . COPPER LEVEL IS HIGH. COPPER & TIN LEVELS ARE SLIGHTLY HIGH. EXAMINE THE OIL, INSPECT ANY SCREEN(S)/ OIL FILTER(S) FOR LARGE VISIBLE METAL/ NON-METAL DEBRIS. CHECK & ENSURE THIS COMPARTMENT OPERATING CORRECTLY. INVESTIGATE AND EVALUATE COMPARTMENT CONDITION. AS THE OIL HAS BEEN CHANGED. AFTER INSPECTION RESAMPLE AT THE NEXT SERVICE INTERVAL TO RE-EVALUATE CONDITION .

SAMPLE INFORMATION				
Sampled Date	15-Sep-22	23-Jul-21	16-Dec-20	30-Oct-20
Sample Id	T010-52277-0416	T010-51215-0438	T010-50359-0226	T010-50310-0338
Lab Date	04-Oct-22	03-Aug-21	24-Dec-20	05-Nov-20
Meter [Hr]	738000	695000	681000	671163
Meter On Fluid	10000	10000	10000	13132
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

CONDITION / CONTAMINATION					
		15-Sep-22	23-Jul-21	16-Dec-20	30-Oct-20
VISCOSITY (CENTISTOKES) ASTM D445					
V100	Viscosity at 100 C	13.06	14.0	14.2	15.2
VISCOSITY (CENTISTOKES) ASTM D445					
V40	Viscosity at 40 C	90.70	105.6	109.4	120.9

VISCOSITY INDEX					
VI	Viscosity Index	144	134	131	130

INFRARED (UFM) ASTM E2412					
ST	Soot	62	30	24	16
OXI	Oxidation	23	12	12	11
SUL	Sulfur Products	26	19	19	17
NIT	Nitration	12	8	8	7

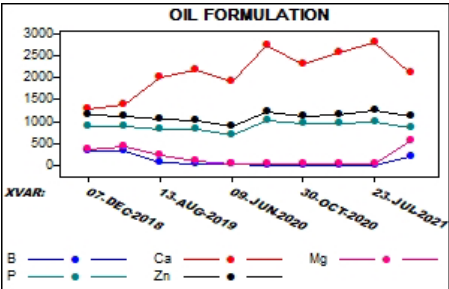
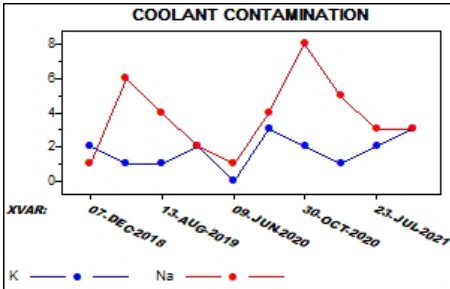
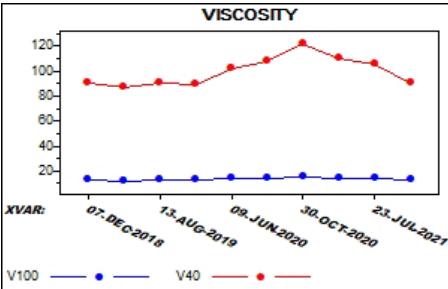
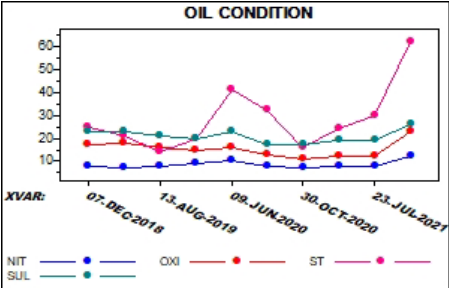
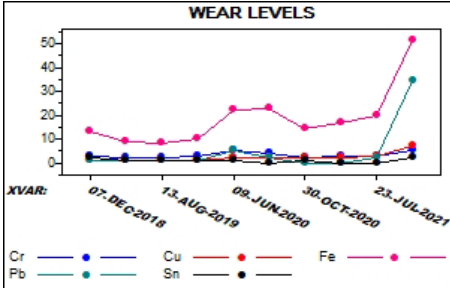
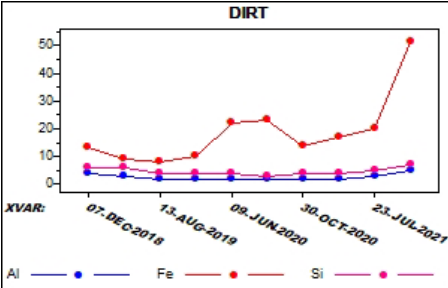
WATER - HOTPLATE					
W	Water	N	N	N	N

FUEL DILUTION (SCREEN)					
F	Fuel	N	N	N	N

FUEL DILUTION (%) ASTM D7593					
PFc	Percent Fuel	3.84	2.69	2.18	2.35

CLEANLINESS					
		15-Sep-22	23-Jul-21	16-Dec-20	30-Oct-20
FERROUS DEBRIS					
PQI	PQ Index	0	6	5	6

WEAR LEVELS / ADDITIVES					
		15-Sep-22	23-Jul-21	16-Dec-20	30-Oct-20
ELEMENTAL ANALYSIS (PPM) ASTM D5185 [OIL] / ASTM D6130 [COOLANT]					
Cu	Copper	7	3	2	2
Fe	Iron	51	20	17	14
Cr	Chromium	5	3	3	2
Al	Aluminum	5	3	2	2
Pb	Lead	34	2	0	0
Sn	Tin	2	0	0	1
Si	Silicon	7	5	4	4
Na	Sodium	3	3	5	8
K	Potassium	3	2	1	2
Mo	Molybdenum	94	1	0	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	1	0	0	0
Cd	Cadmium	0	0	0	0
Ca	Calcium	2098	2796	2562	2316
P	Phosphorus	866	998	957	943
Zn	Zinc	1115	1246	1133	1108
Mg	Magnesium	544	11	8	11
Ba	Barium	0	0	0	0
B	Boron	170	1	1	1



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: TK49

SERIAL NUMBER: TK49_WHELANS

T010-51215-0438

SAMPLE SHIP TIME (days) : 11

WHELANS GROUP

INVESTMENTS PTY LTD

RECEIVED DATE: 03-Aug-21

BRANCH REC DT: 03-Aug-21

ISUZU FRR 500



No Action Required

Interp By: Barry Swindells

Interpreted On: 05-Aug-21

OIL CONDITION SATISFACTORY, CONTINUE SAMPLING AT THE RECOMMENDED INTERVAL.

SAMPLE INFORMATION

	23-Jul-21	16-Dec-20	30-Oct-20	19-Aug-20
Sample Id	T010-51215-0438	T010-50359-0226	T010-50310-0338	T010-50258-0127
Lab Date	03-Aug-21	24-Dec-20	05-Nov-20	14-Sep-20
Meter [Hr]	695000	681000	671163	658031
Meter On Fluid	10000	10000	13132	12031
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

CONDITION / CONTAMINATION

		23-Jul-21	16-Dec-20	30-Oct-20	19-Aug-20
VISCOSITY (CENTISTOKES) ASTM D445					
V100	Viscosity at 100 C	14.0	14.2	15.2	13.9

VISCOSITY (CENTISTOKES) ASTM D445

V40	Viscosity at 40 C	105.6	109.4	120.9	107.2
-----	-------------------	-------	-------	-------	-------

VISCOSITY INDEX

VI	Viscosity Index	134	131	130	130
----	-----------------	-----	-----	-----	-----

INFRARED (UFM) ASTM E2412

ST	Soot	30	24	16	32
OXI	Oxidation	12	12	11	13
SUL	Sulfur Products	19	19	17	17
NIT	Nitration	8	8	7	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	2.69	2.18	2.35	
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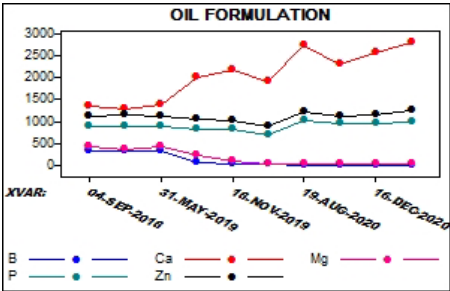
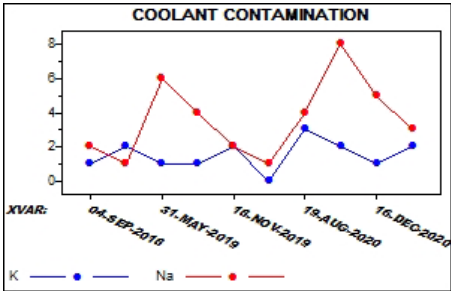
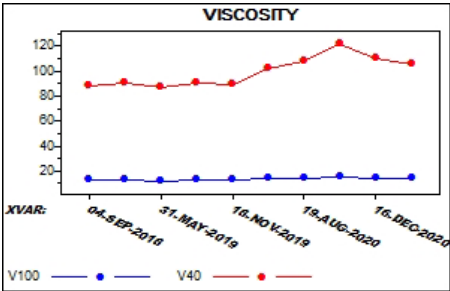
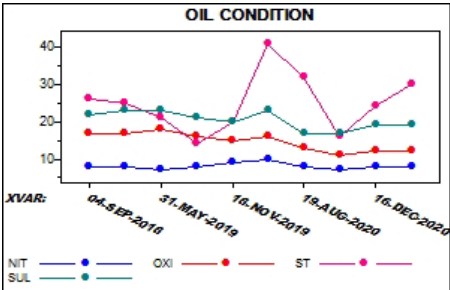
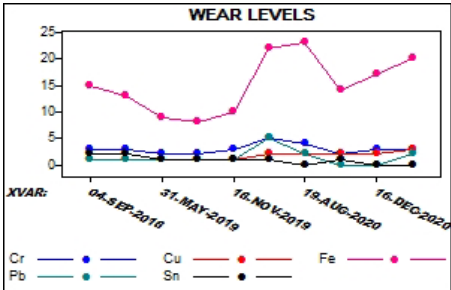
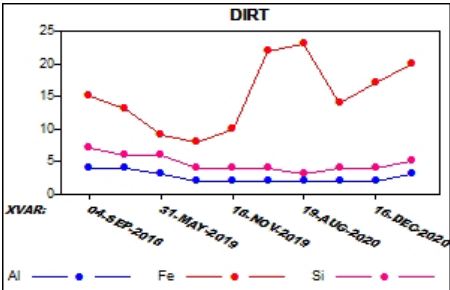
CLEANLINESS

		23-Jul-21	16-Dec-20	30-Oct-20	19-Aug-20
FERROUS DEBRIS					
PQI	PQ Index	6	5	6	6

WEAR LEVELS / ADDITIVES

23-Jul-21 16-Dec-20 30-Oct-20 19-Aug-20

ELEMENTAL ANALYSIS (PPM) ASTM D5185 [OIL] / ASTM D6130 [COOLANT]					
Cu	Copper	3	2	2	2
Fe	Iron	20	17	14	23
Cr	Chromium	3	3	2	4
Al	Aluminum	3	2	2	2
Pb	Lead	2	0	0	2
Sn	Tin	0	0	1	0
Si	Silicon	5	4	4	3
Na	Sodium	3	5	8	4
K	Potassium	2	1	2	3
Mo	Molybdenum	1	0	0	0
Ni	Nickel	0	0	0	1
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	2796	2562	2316	2731
P	Phosphorus	998	957	943	1004
Zn	Zinc	1246	1133	1108	1204
Mg	Magnesium	11	8	11	17
Ba	Barium	0	0	0	0
B	Boron	1	1	1	2



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



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

EQUIPMENT

EQUIP NUM: TK49
SERIAL NUMBER: TK49_WHELANS
MODEL : FRR 500
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 #

T010-50167-0214

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
09-Jun-20	T010-50167-0214	646000	12000	Y	Y	2	22	5	2	5	1	4	1	0	2	0	0	0	0	1	0	1917	693	885	36	0	5
18-Nov-19	T010-49325-0219	634000	13253	Y	Y	1	10	3	2	<1	<1	4	2	2	8	<1	<1	<1	<1	<1	<1	2170	826	1008	95		15
13-Aug-19	T010-49233-0320	620747	13747	Y	Y	<1	8	2	2	<1	<1	4	4	<1	21	<1	<1	<1	<1	<1	<1	2007	821	1061	215		44
31-May-19	T010-49158-0625	607000	10000	Y	Y	<1	9	2	3	<1	<1	6	6	1	83	<1	<1	<1	<1	<1	<1	1398	893	1119	422		303

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
09-Jun-20	T010-50167-0214	FUCHS	CARGO	15W-40	Y	Y	13.5	102.1	131	41	16	23	10	N	N	3.52
18-Nov-19	T010-49325-0219	FUCHS	CARGO	15W-40	Y	Y	12.4	89.2	134	20	15	20	9	N	N	5.56
13-Aug-19	T010-49233-0320	FUCHS	CARGO	15W-40	Y	Y	12.3	90.4	130	14	16	21	8	N	N	5.09
31-May-19	T010-49158-0625	FUCHS	CARGO	15W-40	Y	Y	12.2	87.2	134	21	18	23	7	N	N	4.54

OIL CLEANLINESS

SAMPLE DATE	SAMPLE ID	FLUID CHANGE	FILTER CHANGE	PQI
09-Jun-20	T010-50167-0214	Y	Y	5
18-Nov-19	T010-49325-0219	Y	Y	2
13-Aug-19	T010-49233-0320	Y	Y	2
31-May-19	T010-49158-0625	Y	Y	0

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, 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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FAX:
Email: workshop@whelansgroup.com.au

EQUIPMENT

EQUIP NUM: TK49
SERIAL NUMBER: TK49_WHELANS
MODEL : FRR 500
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) : 26
SAMPLE LOCATION : WORKSHOP

Interp By: Barry Swindells

No Action Required

OIL CONDITION SATISFACTORY, CONTINUE SAMPLING AT THE RECOMMENDED INTERVAL.

LAB #

T010-50258-0127

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
19-Aug-20	T010-50258-0127	658031	12031	Y	Y	2	23	4	2	2	0	3	4	3	0	1	0	0	0	0	0	2731	1004	1204	17	0	2
09-Jun-20	T010-50167-0214	646000	12000	Y	Y	2	22	5	2	5	1	4	1	0	2	0	0	0	0	1	0	1917	693	885	36	0	5
18-Nov-19	T010-49325-0219	634000	13253	Y	Y	1	10	3	2	<1	<1	4	2	2	8	<1	<1	<1	<1	<1	<1	2170	826	1008	95		15
13-Aug-19	T010-49233-0320	620747	13747	Y	Y	<1	8	2	2	<1	<1	4	4	<1	21	<1	<1	<1	<1	<1	<1	2007	821	1061	215		44

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
19-Aug-20	T010-50258-0127	FUCHS	CARGO	15W-40	Y	Y	13.9	107.2	130	32	13	17	8	N	N	
09-Jun-20	T010-50167-0214	FUCHS	CARGO	15W-40	Y	Y	13.5	102.1	131	41	16	23	10	N	N	3.52
18-Nov-19	T010-49325-0219	FUCHS	CARGO	15W-40	Y	Y	12.4	89.2	134	20	15	20	9	N	N	5.56
13-Aug-19	T010-49233-0320	FUCHS	CARGO	15W-40	Y	Y	12.3	90.4	130	14	16	21	8	N	N	5.09

OIL CLEANLINESS

SAMPLE DATE	SAMPLE ID	FLUID CHANGE	FILTER CHANGE	PQI
19-Aug-20	T010-50258-0127	Y	Y	6
09-Jun-20	T010-50167-0214	Y	Y	5
18-Nov-19	T010-49325-0219	Y	Y	2
13-Aug-19	T010-49233-0320	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, 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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EQUIP NUM: TK49
SERIAL NUMBER: TK49_WHELANS
MODEL : FRR 500
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 #

T010-50310-0338

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
30-Oct-20	T010-50310-0338	671163	13132	Y	Y	2	14	2	2	0	1	4	8	2	0	0	0	0	0	0	0	2316	943	1108	11	0	1
19-Aug-20	T010-50258-0127	658031	12031	Y	Y	2	23	4	2	2	0	3	4	3	0	1	0	0	0	0	2731	1004	1204	17	0	2	
09-Jun-20	T010-50167-0214	646000	12000	Y	Y	2	22	5	2	5	1	4	1	0	2	0	0	0	0	1	0	1917	693	885	36	0	5
18-Nov-19	T010-49325-0219	634000	13253	Y	Y	1	10	3	2	<1	<1	4	2	2	8	<1	<1	<1	<1	<1	<1	2170	826	1008	95		15

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
30-Oct-20	T010-50310-0338	FUCHS	CARGO	15W-40	Y	Y	15.2	120.9	130	16	11	17	7	N	N	2.35
19-Aug-20	T010-50258-0127	FUCHS	CARGO	15W-40	Y	Y	13.9	107.2	130	32	13	17	8	N	N	
09-Jun-20	T010-50167-0214	FUCHS	CARGO	15W-40	Y	Y	13.5	102.1	131	41	16	23	10	N	N	3.52
18-Nov-19	T010-49325-0219	FUCHS	CARGO	15W-40	Y	Y	12.4	89.2	134	20	15	20	9	N	N	5.56

OIL CLEANLINESS

SAMPLE DATE	SAMPLE ID	FLUID CHANGE	FILTER CHANGE	PQI
30-Oct-20	T010-50310-0338	Y	Y	6
19-Aug-20	T010-50258-0127	Y	Y	6
09-Jun-20	T010-50167-0214	Y	Y	5
18-Nov-19	T010-49325-0219	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, 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: TK49
SERIAL NUMBER: TK49_WHELANS
MODEL : FRR 500
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) : 8
SAMPLE LOCATION : BAIRNSDALE

Interp By: Barry Swindells

No Action Required

OIL CONDITION SATISFACTORY, CONTINUE SAMPLING AT THE RECOMMENDED INTERVAL.

LAB #

T010-50359-0226

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
16-Dec-20	T010-50359-0226	681000	10000	Y	Y	2	17	3	2	0	0	4	5	1	0	0	0	0	0	0	0	2562	957	1133	8	0	1
30-Oct-20	T010-50310-0338	671163	13132	Y	Y	2	14	2	2	0	1	4	8	2	0	0	0	0	0	0	0	2316	943	1108	11	0	1
19-Aug-20	T010-50258-0127	658031	12031	Y	Y	2	23	4	2	2	0	3	4	3	0	1	0	0	0	0	0	2731	1004	1204	17	0	2
09-Jun-20	T010-50167-0214	646000	12000	Y	Y	2	22	5	2	5	1	4	1	0	2	0	0	0	0	1	0	1917	693	885	36	0	5

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-Dec-20	T010-50359-0226	FUCHS	CARGO	15W-40	Y	Y	14.2	109.4	131	24	12	19	8	N	N	2.18
30-Oct-20	T010-50310-0338	FUCHS	CARGO	15W-40	Y	Y	15.2	120.9	130	16	11	17	7	N	N	2.35
19-Aug-20	T010-50258-0127	FUCHS	CARGO	15W-40	Y	Y	13.9	107.2	130	32	13	17	8	N	N	
09-Jun-20	T010-50167-0214	FUCHS	CARGO	15W-40	Y	Y	13.5	102.1	131	41	16	23	10	N	N	3.52

OIL CLEANLINESS

SAMPLE DATE	SAMPLE ID	FLUID CHANGE	FILTER CHANGE	PQI
16-Dec-20	T010-50359-0226	Y	Y	5
30-Oct-20	T010-50310-0338	Y	Y	6
19-Aug-20	T010-50258-0127	Y	Y	6
09-Jun-20	T010-50167-0214	Y	Y	5

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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William Adams



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Email: workshop@whelansgroup.com.au

Interp By: Tom Cokalis

EQUIPMENT

CUSTOMER EQUIP NUM : TK49
SERIAL NUMBER : TK49_WHELANS
MODEL : FRR 500
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

No Action Required

OIL CONDITION SATISFACTORY, CONTINUE SAMPLING AT THE RECOMMENDED INTERVAL.

LAB #

T010-49158-0625

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
31-May-19	T010-49158-0625	607000	10000	Y	Y	<1	9	2	3	<1	<1	6	6	1	83	<1	<1	<1	<1	<1	<1	1398	893	1119	422	303
07-Dec-18	T010-49008-0518	591000	10000	Y	Y	<1	13	3	4	<1	2	6	<1	2	78	<1	<1	<1	<1	<1	<1	1275	868	1155	354	304
04-Sep-18	T010-48250-0128	574000	14000	Y	Y	1	15	3	4	<1	2	7	2	<1	80	<1	<1	<1	<1	<1	<1	1339	875	1130	413	320
14-Jun-18	T010-48169-0123	564238	10000	Y	Y	2	13	3	3	3	2	8	3	<1	73	<1	<1	<1	<1	<1	<1	1284	893	1169	511	242

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
31-May-19	T010-49158-0625	FUCHS	CARGO	15W-40	Y	Y	12.2	87.2	134	21	18	23	7	N	N	4.54
07-Dec-18	T010-49008-0518	FUCHS	CARGO	15W-40	Y	Y	12.6	89.7	137	25	17	23	8	N	N	4.28
04-Sep-18	T010-48250-0128	FUCHS	CARGO	15W-40	Y	Y	12.3	87.8	135	26	17	22	8	N	N	5.47
14-Jun-18	T010-48169-0123	FUCHS	CARGO	15W-40	Y	Y	12.4	88.2	136	21	17	21	8	N	N	4.22

OIL CLEANLINESS

SAMPLE DATE	SAMPLE ID	FLUID CHANGE	FILTER CHANGE	PQI
31-May-19	T010-49158-0625	Y	Y	0
07-Dec-18	T010-49008-0518	Y	Y	4
04-Sep-18	T010-48250-0128	Y	Y	8
14-Jun-18	T010-48169-0123	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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FAX:
Email: workshop@whelansgroup.com.au

EQUIPMENT

CUSTOMER EQUIP NUM : TK49
SERIAL NUMBER : TK49_WHELANS
MODEL : FRR 500
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) : 8
SAMPLE LOCATION :

Interp By: Barry Swindells

**Monitor
Compartment**

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

LAB #

T010-49233-0320

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
13-Aug-19	T010-49233-0320	620747	13747	Y	Y	<1	8	2	2	<1	<1	4	4	<1	21	<1	<1	<1	<1	<1	<1	2007	821	1061	215	44
31-May-19	T010-49158-0625	607000	10000	Y	Y	<1	9	2	3	<1	<1	6	6	1	83	<1	<1	<1	<1	<1	<1	1398	893	1119	422	303
07-Dec-18	T010-49008-0518	591000	10000	Y	Y	<1	13	3	4	<1	2	6	<1	2	78	<1	<1	<1	<1	<1	<1	1275	868	1155	354	304
04-Sep-18	T010-48250-0128	574000	14000	Y	Y	1	15	3	4	<1	2	7	2	<1	80	<1	<1	<1	<1	<1	<1	1339	875	1130	413	320

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
13-Aug-19	T010-49233-0320	FUCHS	CARGO	15W-40	Y	Y	12.3	90.4	130	14	16	21	8	N	N	5.09
31-May-19	T010-49158-0625	FUCHS	CARGO	15W-40	Y	Y	12.2	87.2	134	21	18	23	7	N	N	4.54
07-Dec-18	T010-49008-0518	FUCHS	CARGO	15W-40	Y	Y	12.6	89.7	137	25	17	23	8	N	N	4.28
04-Sep-18	T010-48250-0128	FUCHS	CARGO	15W-40	Y	Y	12.3	87.8	135	26	17	22	8	N	N	5.47

OIL CLEANLINESS

SAMPLE DATE	SAMPLE ID	FLUID CHANGE	FILTER CHANGE	PQI
13-Aug-19	T010-49233-0320	Y	Y	2
31-May-19	T010-49158-0625	Y	Y	0
07-Dec-18	T010-49008-0518	Y	Y	4
04-Sep-18	T010-48250-0128	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, V100 = Viscosity@100C, V40 = Viscosity@40C, VI = Viscosity Index, W = Water, Zn = Zinc

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EQUIPMENT

CUSTOMER EQUIP NUM : TK49
SERIAL NUMBER : TK49_WHELANS
MODEL : FRR 500
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 : WORKSHOP

Interp By: Tom Cokalis

No Action Required

OIL CONDITION SATISFACTORY, CONTINUE SAMPLING AT THE RECOMMENDED INTERVAL.

LAB #

T010-49325-0219

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
18-Nov-19	T010-49325-0219	634000	13253	Y	Y	1	10	3	2	<1	<1	4	2	2	8	<1	<1	<1	<1	<1	<1	2170	826	1008	95	15
13-Aug-19	T010-49233-0320	620747	13747	Y	Y	<1	8	2	2	<1	<1	4	4	<1	21	<1	<1	<1	<1	<1	<1	2007	821	1061	215	44
31-May-19	T010-49158-0625	607000	10000	Y	Y	<1	9	2	3	<1	<1	6	6	1	83	<1	<1	<1	<1	<1	<1	1398	893	1119	422	303
07-Dec-18	T010-49008-0518	591000	10000	Y	Y	<1	13	3	4	<1	2	6	<1	2	78	<1	<1	<1	<1	<1	<1	1275	868	1155	354	304

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
18-Nov-19	T010-49325-0219	FUCHS	CARGO	15W-40	Y	Y	12.4	89.2	134	20	15	20	9	N	N	5.56
13-Aug-19	T010-49233-0320	FUCHS	CARGO	15W-40	Y	Y	12.3	90.4	130	14	16	21	8	N	N	5.09
31-May-19	T010-49158-0625	FUCHS	CARGO	15W-40	Y	Y	12.2	87.2	134	21	18	23	7	N	N	4.54
07-Dec-18	T010-49008-0518	FUCHS	CARGO	15W-40	Y	Y	12.6	89.7	137	25	17	23	8	N	N	4.28

OIL CLEANLINESS

SAMPLE DATE	SAMPLE ID	FLUID CHANGE	FILTER CHANGE	PQI
18-Nov-19	T010-49325-0219	Y	Y	2
13-Aug-19	T010-49233-0320	Y	Y	2
31-May-19	T010-49158-0625	Y	Y	0
07-Dec-18	T010-49008-0518	Y	Y	4

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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