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Interp By: Barry Swindells **EQUIPMENT**

EQUIP NUM: TK48

SERIAL NUMBER: TK48_WHELANS

MODEL: FFR500

MANUFACTURER: ISUZU

COMPANY NAME: WHELANS GROUP INVESTMENTS PTY LTD

JOB SITE:

AREA:

REGION:

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

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:

Monitor

Compartment

LAB#

T010-50202-0222

		WEAR/0	CONTAMINATION	- ADDITIVES/F	ORMULATION																						
SAMPLE	SAMPLE ID	METER	METER ON	FLUID	FILTER	Cu	Fe	Cr	Al	Pb	Sn	Si	Na	К	Мо	Ni	Ag	Ti	٧	Mn	Cd	Ca	Р	Zn	Mg	Ва	В
DATE		(KM)	FLUID	CHANGE	CHANGE																						
15-Jul-20	T010-50202-0222	576000	11288	Υ	Υ	1	12	2	2	0	0	4	5	2	0	0	0	0	0	0	0	2360	849	1074	9	0	1
25-Feb-20	T010-50062-0350	564712	10000	Υ	Υ	<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	Υ	Υ	1	11	2	4	<1	<1	7	3	<1	77	<1	<1	<1	1	<1	<1	1116	801	1014	320		293

			OIL FORMULATION	- OIL CONDITION	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										
15-Jul-20	T010-50202-0222	FUCHS	CARGO	15W-40	Υ	Υ	12.0	86.6	132	31	13	21	9	N	N	5.21
25-Feb-20	T010-50062-0350	FUCHS	CARGO	15W-40	Y	Y	11.7	84.4	130	28	13	20	9	N	Р	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	Υ	11.7	82.9	133	28	16	22	7	N	N	4.57

		OIL	CLEANLINESS	
SAMPLE	SAMPLE ID	FLUID	FILTER	PQI
DATE		CHANGE	CHANGE	
15-Jul-20	T010-50202-0222	Y	Y	5
25-Feb-20	T010-50062-0350	Y	Y	3
27-Aug-19	T010-49246-0722	Y	Y	1
28-May-19	T010-49155-0111	Υ	Υ	2

Ag = Silver, Al = Aluminum, B = Boron, Ba = Barium, Ca = Calcium, Cd = Cadmium, Cr = Chromium, Cu = Copper, F = Fuel, Fe = Iron, K = Potassium, Mn = Manganesse, 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@10C, V40 = Viscosity@40C, VI = Viscosity@10C, V40 = Viscosity@40C, VI = V

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Interp By: Barry Swindells

Monitor

Compartment

EQUIPMENT

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:

LABFL#

SHOP JOB NUM:

SAMPLE TYPE: OIL

SAMPLE SHIP TIME (days): 7

SAMPLE LOCATION: WORKSHOP

PQ IS ELEVATED. POSSIBLE FUEL DILUTION OCCURING, INVESTIGATE AND EVALUATE COMPARTMENT CONDITION. SUGGEST CUT OPEN FILTER(S) AND INSPECT FOR DEBRIS. MONITOR COMPARTMENT FOR RISING OIL LEVEL. CHECK & ENSURE THIS COMPARTMENT OPERATING CORRECTLY. WE WILL MONITOR ACTIVITY OVER THE NEXT FEW SAMPLES. RESAMPLE AT HALF THE RECOMMENDED INTERVAL.

LAB#

T010-50342-0224

		WEAR/0	CONTAMINATION	- ADDITIVES/F	ORMULATION																						
SAMPLE	SAMPLE ID	METER (KM)	METER ON	FLUID	FILTER	Cu	Fe	Cr	Al	Pb	Sn	Si	Na	К	Мо	Ni	Ag	Ti	٧	Mn	Cd	Ca	Р	Zn	Mg	Ва	В
DATE		(KW)	FLUID	CHANGE	CHANGE																						
30-Nov-20	T010-50342-0224	586000	10000	Υ	Y	1	10	1	2	0	0	4	3	0	1	1	0	0	0	0	0	2246	929	1024	10	0	2
15-Jul-20	T010-50202-0222	576000	11288	Υ	Υ	1	12	2	2	0	0	4	5	2	0	0	0	0	0	0	0	2360	849	1074	9	0	1
25-Feb-20	T010-50062-0350	564712	10000	Υ	Υ	<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	Υ	Υ	<1	8	1	2	<1	<1	4	4	1	12	<1	<1	<1	<1	<1	<1	2166	808	1031	58		45

			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-Nov-20	T010-50342-0224	FUCHS	CARGO	15W-40	Υ	Υ	12.4	90.4	132	26	12	18	8	N	N	4.77
15-Jul-20	T010-50202-0222	FUCHS	CARGO	15W-40	Y	Y	12.0	86.6	132	31	13	21	9	N	N	5.21
25-Feb-20	T010-50062-0350	FUCHS	CARGO	15W-40	Y	Y	11.7	84.4	130	28	13	20	9	N	Р	6.25
27-Aug-19	T010-49246-0722	FUCHS	CARGO	15W-40	Υ	Υ	12.0	87.7	130	20	12	19	8	N	N	5.19

		OIL	CLEANLINESS	
SAMPLE	SAMPLE ID	FLUID	FILTER	PQI
DATE		CHANGE	CHANGE	
30-Nov-20	T010-50342-0224	Y	Υ	35
15-Jul-20	T010-50202-0222	Υ	Y	5
25-Feb-20	T010-50062-0350	Υ	Y	3
27-Aug-19	T010-49246-0722	Υ	Υ	1

Ag = Silver, Al = Aluminum, B = Boron, Ba = Barium, Ca = Calcium, Cd = Cadmium, Cr = Chromium, Cu = Copper, F = Fuel, Fe = Iron, K = Potassium, Mn = Manganesse, 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 @40C, VI = Visco

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Interp By: Barry Swindells

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: BAIRNSDALE

Monitor

Compartment

POSSIBLE FUEL DILUTION OCCURING, CHECK WITH ENGINE MANUFACTURER FOR THE MAXIMUM ALLOWABLE FUEL DILUTION PERCENTAGE.
MONITOR COMPARTMENT FOR RISING OIL LEVEL. CHECK & ENSURE THIS COMPARTMENT OPERATING CORRECTLY. CONTINUE SAMPLING

AT THE RECOMMENDED INTERVAL TO MONITOR. MORE SAMPLES NEEDED TO DEVELOP A TREND.

LAB#

T010-48030-0125

		WEAR/0	CONTAMINATION -	ADDITIVES/F	ORMULATION																					
SAMPLE	SAMPLE ID	METER	METER ON	FLUID	FILTER	Cu	Fe	Cr	Al	Pb	Sn	Si	Na	К	Мо	Ni	Ag	Ti	٧	Mn	Cd	Ca	Р	Zn	Mg	В
DATE		(KM)	FLUID	CHANGE	CHANGE																					
24-Jan-18	T010-48030-0125	503270	10000	Υ	Υ	2	20	3	4	1	1	6	2	2	85	<1	<1	<1	<1	<1	<1	1202	824	1074	342	302

			OIL FORMULATION	- OIL CONDITION	ON - OIL COI	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	T010-48030-0125	FUCHS	CARGO	15W-40	Υ	Υ	85.0	38	18	23	9	N	N	3.48

		OIL	CLEANLINESS	
SAMPLE	SAMPLE ID	FLUID	FILTER	PQI
DATE		CHANGE	CHANGE	
24-Jan-18	T010-48030-0125	Υ	Υ	4

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Interp By: Tom Cokalis

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

Monitor

Compartment

ELEVATED SILICON COULD BE CAUSED BY A GASKET SEALER. CHECK FILTER MEDIUM AND SCREENS FOR WEAR MATERIAL AND CONTAMINATION. ALL OTHER TEST RESULTS APPEAR ACCEPTABLE. AFTER INSPECTION RESAMPLE AT THE NEXT SERVICE INTERVAL TO

RE-EVALUATE CONDITION .

LAB#

T010-48165-0124

		WEAR/0	CONTAMINATION -	- ADDITIVES/F	ORMULATION																					
SAMPLE DATE	SAMPLE ID	METER (KM)	METER ON FLUID	FLUID CHANGE	FILTER CHANGE	Cu	Fe	Cr	Al	Pb	Sn	Si	Na	К	Мо	Ni	Ag	Ti	V	Mn	Cd	Ca	Р	Zn	Mg	В
08-Jun-18	T010-48165-0124	513800	10000	Υ	Υ	1	16	2	4	1	2	69	3	<1	91	<1	<1	<1	<1	<1	<1	1352	1015	1240	375	381
24-Jan-18	T010-48030-0125	503270	10000	Υ	Υ	2	20	3	4	1	1	6	2	2	85	<1	<1	<1	<1	<1	<1	1202	824	1074	342	302

			OIL FORMULATION	- OIL CONDITION	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										
08-Jun-18	T010-48165-0124	FUCHS	CARGO	15W-40	Υ	Y	12.2	85.8	137	25	17	22	7	N	N	4.38
24-Jan-18	T010-48030-0125	FUCHS	CARGO	15W-40	Y	Υ		85.0		38	18	23	9	N	N	3.48

		OIL	CLEANLINESS	
SAMPLE	SAMPLE ID	FLUID	FILTER	PQI
DATE		CHANGE	CHANGE	
08-Jun-18	T010-48165-0124	Υ	Υ	1
24-Jan-18	T010-48030-0125	Υ	Υ	4

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Interp By: Tom Cokalis

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:

LABFL#

SHOP JOB NUM:

SAMPLE TYPE: OIL

SAMPLE SHIP TIME (days): 2

SAMPLE LOCATION: WORKSHOP

Action Required

FUEL DILUTION OF 6.5% IS OVER THE CATERPILLAR LIMIT OF 6% BY VOLUME IN OIL. WEAR METAL LEVELS ARE ACCEPTABLE. ALL OTHER TEST RESULTS APPEAR ACCEPTABLE. CHECK WITH ENGINE MANUFACTURER FOR THE MAXIMUM ALLOWABLE FUEL DILUTION PERCENTAGE MONITOR IDLE TIME. MONITOR COMPARTMENT FOR RISING OIL LEVEL. INVESTIGATE THE CAUSE OF FUEL DILUTION THEN RESAMPLE AT

LAB#

T010-48284-0220

THE NEXT RECOMMENDED SERVICE INTERVAL.

		WEAR/0	CONTAMINATION -	- ADDITIVES/F	ORMULATION																					
SAMPLE	SAMPLE ID	METER	METER ON	FLUID	FILTER	Cu	Fe	Cr	Al	Pb	Sn	Si	Na	К	Мо	Ni	Ag	Ti	٧	Mn	Cd	Ca	Р	Zn	Mg	В
DATE		(KM)	FLUID	CHANGE	CHANGE																					
09-Oct-18	T010-48284-0220	524000	10000	Υ	Υ	1	15	2	4	1	1	17	3	<1	85	<1	<1	<1	<1	<1	<1	1309	934	1186	379	381
08-Jun-18	T010-48165-0124	513800	10000	Y	Y	1	16	2	4	1	2	69	3	<1	91	<1	<1	<1	<1	<1	<1	1352	1015	1240	375	381
24-Jan-18	T010-48030-0125	503270	10000	Y	Y	2	20	3	4	1	1	6	2	2	85	<1	<1	<1	<1	<1	<1	1202	824	1074	342	302

			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										
09-Oct-1	T010-48284-0220	FUCHS	CATGO	15W-40	Υ	Y	12.0	85.1	135	28	16	22	7	N	Р	6.50
08-Jun-1	T010-48165-0124	FUCHS	CARGO	15W-40	Y	Y	12.2	85.8	137	25	17	22	7	N	N	4.38
24-Jan-1	T010-48030-0125	FUCHS	CARGO	15W-40	Υ	Υ		85.0		38	18	23	9	N	N	3.48

		OIL	CLEANLINESS	
SAMPLE	SAMPLE ID	FLUID	FILTER	PQI
DATE		CHANGE	CHANGE	
09-Oct-18	T010-48284-0220	Υ	Y	0
08-Jun-18	T010-48165-0124	Y	Y	1
24-Jan-18	T010-48030-0125	Υ	Y	4

Ag = Silver, Al = Aluminum, B = Boron, Ca = Calcium, Cd = Cadmium, Cr = Chromium, 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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Interp By: Barry Swindells

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): 5

SAMPLE LOCATION: WORKSHOP

Action Required

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

LAB#

T010-49035-0220

		WEAR/0	CONTAMINATION -	ADDITIVES/F	ORMULATION																					
SAMPLE DATE	SAMPLE ID	METER (KM)	METER ON FLUID	FLUID CHANGE	FILTER CHANGE	Cu	Fe	Cr	Al	Pb	Sn	Si	Na	К	Мо	Ni	Ag	Ti	٧	Mn	Cd	Ca	Р	Zn	Mg	В
30-Jan-19	T010-49035-0220	535000	11000	Υ	Υ	<1	12	2	4	2	2	9	2	<1	80	<1	<1	<1	<1	<1	<1	1279	872	1140	380	337
09-Oct-18	T010-48284-0220	524000	10000	Υ	Υ	1	15	2	4	1	1	17	3	<1	85	<1	<1	<1	<1	<1	<1	1309	934	1186	379	381
08-Jun-18	T010-48165-0124	513800	10000	Υ	Υ	1	16	2	4	1	2	69	3	<1	91	<1	<1	<1	<1	<1	<1	1352	1015	1240	375	381
24-Jan-18	T010-48030-0125	503270	10000	Υ	Y	2	20	3	4	1	1	6	2	2	85	<1	<1	<1	<1	<1	<1	1202	824	1074	342	302

			OIL FORMULATION	- OIL CONDITION	ON - OIL COI	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										
30-Jan-19	T010-49035-0220	FUCHS	CARGO	15W-40	Υ	Υ	12.5	86.0	142	26	16	21	7	N	Р	6.04
09-Oct-18	T010-48284-0220	FUCHS	CATGO	15W-40	Y	Υ	12.0	85.1	135	28	16	22	7	N	Р	6.50
08-Jun-18	T010-48165-0124	FUCHS	CARGO	15W-40	Y	Y	12.2	85.8	137	25	17	22	7	N	N	4.38
24-Jan-18	T010-48030-0125	FUCHS	CARGO	15W-40	Υ	Υ		85.0		38	18	23	9	N	N	3.48

			OIL	CLEANLINESS	
ſ	SAMPLE	SAMPLE ID	FLUID	FILTER	PQI
ı	DATE		CHANGE	CHANGE	
	30-Jan-19	T010-49035-0220	Υ	Υ	0
	09-Oct-18	T010-48284-0220	Υ	Y	0
	08-Jun-18	T010-48165-0124	Υ	Y	1
	24-Jan-18	T010-48030-0125	Υ	Υ	4

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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PQ Index

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ENGINE TRUCK

T010-54059-0429 SAMPLE SHIP TIME (days) : 5

WHELANS GROUP INVESTMENTS PTY LTD

LOCATION: WORKSHOP RECEIVED DATE: 28-Feb-24 **EQUIP NUM: TK48**

SERIAL NUMBER: TK48_WHELANS

ISUZU FFR500



Action Required

Interp By: Barry Swindells Interpreted On: 29-Feb-24

CHROME RESULT APPEARS SLIGHTLY HIGH, POSSIBLE FUEL DILUTION OCCURING, CHECK ROCKER CLEARANCE. MAY BE POSSIBLE CAM WEAR. SUGGEST CUT OPEN FILTER(S) AND INSPECT FOR DEBRIS. MONITOR COMPARTMENT FOR RISING OIL LEVEL. 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. RECOMMEND SCHEDULE UNIT FOR INSPECTION ASAP. AFTER INSPECTION RESAMPLE AT THE NEXT SERVICE INTERVAL TO RE-EVALUATE CONDITION

		SAMPLE INFORMA	TION		PF	REVIC
	\triangle	-	1		OIL CONDITION SATISFAC	
Sampled Date	23-Feb-24	02-Dec-21	30-Jul-21	19-Mar-21	RECOMMENDED INTERVAL. THE	E TE
Sample Id	T010-54059-0429	T010-51357-0713	T010-51217-0622	T010-51084-0239	DUE TO INSTRUMENT DOWN.	
Lab Date	28-Feb-24	23-Dec-21	05-Aug-21	25-Mar-21	For additional sample	e histor
Meter [Hr]	642224	626000	613000	596000	CONDI	TION
Comp Meter [Hr]	642224					3-Feb-2
Meter On Fluid	16224	10000	10000	10000		
Fluid Brand	VALVOLINE	FUCHS	FUCHS	FUCHS	VISCOSITY (CENTISTOKES) ASTM D	
Fluid Weight	15W-40	15W-40	15W-40	15W-40	V100 Viscosity at 100 C	11.35
Fluid Type	ALL FLEET	CARGO	CARGO	CARGO		
Fluid Change	Υ	Υ	Υ	Υ		
Filter Change	Υ	Υ	Υ	Υ	VISCOSITY (CENTISTOKES) ASTM D	445
Make Up Fluid [L]		120	0		•	79.22
Total Fluid Added	0	120	0	0	viologity at 40 G	
		WEAR LEVELS / ADD	NITIVEQ		VISCOSITY INDEX	
		23-Feb-24 02-Dec-21	30-Jul-21	19-Mar-21	VI Viscosity Index	135

OIL CONDITION RECOMMENDED IN DUE TO INSTRUMENT	NTERVAL.	ACTORY, THE TEST	CONTI FOR F	NUE PQ IS	SAMPLING CURRENTLY	AT THE
F	or additional sa	mple history, go	to:		S.O.S WEB	
	COI	NDITION / CO	ONTAN	IINATIO	N	
		23-Feb-24	02-De	c-21	30-Jul-21	19-Mar-21
VISCOSITY (CENT	ISTOKES) AST	M D445				
V100 Viscosity a	t 100 C	11.35	12.6	5	12.2	12.3

93.4

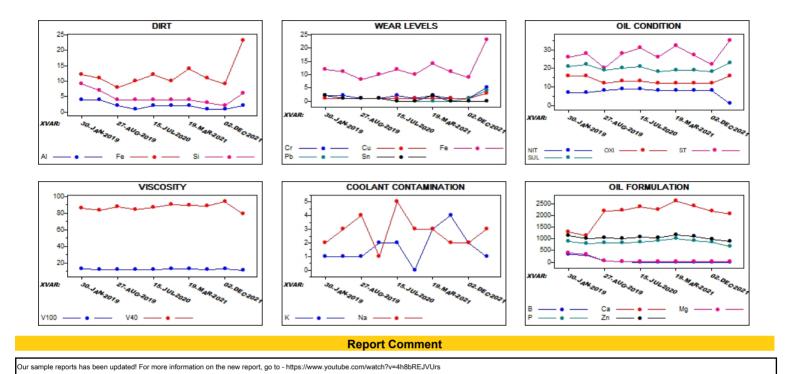
88.3

89.5

PREVIOUS SAMPLE

		WEAR LEV	/ELS / ADDI	TIVES		
		23-Feb-24	02-Dec-21	30-Jul-21	19-Mar-21	
ELEM	ENTAL ANALYSIS (PP	PM) ASTM D5185 [OIL]	/ ASTM D6130	[COOLANT]		
Cu	Copper	3	1	1	1	
Fe	Iron	23	9	11	14	
Cr	Chromium	5	1	1	2	
Al	Aluminum	2	1	1	2	
Pb	Lead	4	1	0	0	
Sn	Tin	0	0	0	2	
Si	Silicon	6	2	3	4	
Na	Sodium	3	2	2	3	
K	Potassium	1	2	4	3	
Мо	Molybdenum	0	1	1	0	
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	
Са	Calcium	2071	2184	2390	2599	
Р	Phosphorus	682	849	911	993	
Zn	Zinc	878	991	1108	1169	
Mg	Magnesium	11	9	11	9	
Ва	Barium	0	0	0	0	
В	Boron	2	1	2	1	

VISCO	SIIT INDEX				
VI	Viscosity Index	135	130	132	132
INFRA	RED (UFM) ASTM E241:	2			
ST	Soot	35	22	27	32
OXI	Oxidation	16	12	12	12
SUL	Sulfur Products	23	18	19	19
NIT	Nitration	1	8	8	8
WATE	R - HOTPLATE				
W	Water	N	N	N	N
FUEL	DILUTION (SCREEN)				
F	Fuel	N	N	N	N
FUEL	DILUTION (%) ASTM D7	593			
PFc	Percent Fuel	5.95	3.83	4.29	4.11
		CLEAN	LINESS		
		23-Feb-24	02-Dec-21	30-Jul-21	19-Mar-21
FERR	OUS DEBRIS				



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



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GEARBOX

T010-54128-0831

WHELANS GROUP

SAMPLE SHIP TIME (days) : 6

INVESTMENTS PTY LTD

LOCATION: WORKSHOP

RECEIVED DATE: 07-May-24

EQUIP NUM: TK48

SERIAL NUMBER: TK48_WHELANS

ISUZU FFR500



Monitor Compartment

Interp By: Barry Swindells Interpreted On: 09-May-24

THE OIL VISCOSITY @ 40C IS LOWER THAN THE TYPICAL SPECIFICATION FOR THE REPORTED OIL. INVESTIGATE AND MONITOR COMPARTMENT FOR RISING OIL LEVEL. CHECK FOR TRANSMISSION EVALUATE COMPARTMENT CONDITION. SHIFTING PROBLEMS. CHECK & ENSURE THIS COMPARTMENT OPERATING CORRECTLY. AS THE OIL HAS BEEN WILL MONITOR ACTIVITY OVER THE NEXT FEW SAMPLES. RECOMMEND SCHEDULE UNIT FOR INSPECTION ASAP. AFTER INSPECTION AND SERVICE, RESAMPLE AT HALF THE RECOMMENDED INTERVAL TO RE-EVALUATE CONDITION MORE SAMPLES NEEDED TO DEVELOP A TREND.

		SAMPLE INFORMATION
Sampled Date	01-May-24	
Sample Id	T010-54128-0831	
Lab Date	07-May-24	
Meter [Hr]	643989	
Comp Meter [Hr]	643989	
Meter On Fluid	100000	
Fluid Brand	ISUZU	
Fluid Weight	80W-90	
Fluid Type	TRANSMISSION OIL	
Fluid Change	Υ	
Filter Change	N	
Make Up Fluid []	5	
Total Fluid Added	0	

PREVIOUS SAMPLE

For additional sample history, go to:

S.O.S WEB

CONDITION / CONTAMINATION

01-May-24

VISCOSITY (CENTISTOKES) ASTM D445

56.24 Viscosity at 40 C

INFRARED (UFM) ASTM E2412

OXI Oxidation 39

WATER - HOTPLATE

Water

WEAR LEVELS / ADDITIVES

01-May-24

ELEME	ELEMENTAL ANALYSIS (PPM) ASTM D5185 [OIL] / ASTM D6130 [COOLANT]									
Cu	Copper	20								
Fe	Iron	60								
Cr	Chromium	1								
Al	Aluminum	4								
Pb	Lead	0								
Sn	Tin	0								
Si	Silicon	17								
Na	Sodium	1								
K	Potassium	1								
Мо	Molybdenum	1								
Ni	Nickel	0								
Ag	Silver	0								
Ti	Titanium	0								
V	Vanadium	0								
Mn	Manganese	1								
Cd	Cadmium	0								
Ca	Calcium	399								
Р	Phosphorus	500								
Zn	Zinc	12								
Mg	Magnesium	1								
Ва	Barium	0								
В	Boron	3								

CLEANLINESS

01-May-24 PARTICLE COLINT - ISO 11171:1000 reported per ISO 4406

ISO	ISO Code Rating	21/15
6μ	6µ	19275

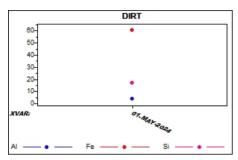
309 14µ

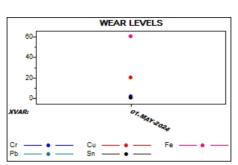
FERROUS DEBRIS

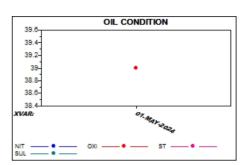
PQI PQ Index

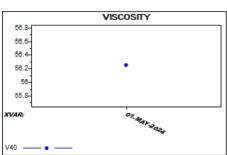
VISUAL INSPECTION

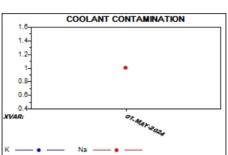
DEP DEP DEP2 DEP2 N

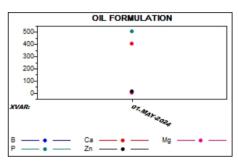












Report Comment

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

3168 Australia

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ENGINE TRUCK

T010-54190-0232

SAMPLE SHIP TIME (days): 4

WHELANS GROUP INVESTMENTS PTY LTD

LOCATION: WORKSHOP
RECEIVED DATE: 08-Jul-24

EQUIP NUM: TK48 ISUZU FFR500

SERIAL NUMBER: TK48_WHELANS



Monitor Compartment

Interp By: Barry Swindells

S.O.S WEB

Interpreted On: 10-Jul-24

POSSIBLE FUEL DILUTION OCCURING, MONITOR COMPARTMENT FOR RISING OIL LEVEL. CHECK & ENSURE THIS COMPARTMENT OPERATING CORRECTLY. WE WILL MONITOR ACTIVITY OVER THE NEXT FEW SAMPLES. CONTINUE SAMPLING AT THE RECOMMENDED INTERVAL TO MONITOR.

SAMPLE INFORMATION								
		\triangle	-					
Sampled Date	04-Jul-24	23-Feb-24	02-Dec-21	30-Jul-21				
Sample Id	T010-54190-0232	T010-54059-0429	T010-51357-0713	T010-51217-0622				
Lab Date	08-Jul-24	28-Feb-24	23-Dec-21	05-Aug-21				
Meter [Km]	646307	642224	626000	613000				
Comp Meter [Km]	646307	642224						
Meter On Fluid	15000	16224	10000	10000				
Fluid Brand	VALVOLINE	VALVOLINE	FUCHS	FUCHS				
Fluid Weight	15W-40	15W-40	15W-40	15W-40				
Fluid Type	ALL FLEET	ALL FLEET	CARGO	CARGO				
Fluid Change	Υ	Υ	Υ	Υ				
Filter Change	Υ	Υ	Υ	Υ				
Make Up Fluid [L]	12		120	0				
Total Fluid Added	12	0	120	0				

	PR	EVIOUS SA	MPLE			
CHROME RESULT	APPEARS SL	IGHTLY HIC	SH, POS	SSIBLE F	-UEL D	ILUTION
OCCURING, CHEC	K ROCKER	CLEARANCE.	MAY BE	POSSIBLE	CAM	WEAR.
SUGGEST CUT OF	PEN FILTER(S)	AND IN	SPECT FOR	DEBRIS	5. M	ONITOR
COMPARTMENT FOI	R RISING	OIL LEVEL	. CHEC	CK &	ENSURE	THIS
COMPARTMENT OPER	ATING CORRE	CTLY. AS	THE OIL	HAS E	BEEN CH	HANGED.
WE WILL MONITOR	ACTIVITY O\	/ER THE N	EXT FEW	SAMPLES.	ALL	OTHER
TEST RESULTS AF	PPEAR ACCEP	TABLE.	RECOMMEND	SCHEDUL	E UNIT	FOR
INSPECTION ASAP.	AFTER IN	SPECTION F	RESAMPLE A	T THE	NEXT	SERVICE
INTERVAL TO RE-EVALUA	TE CONDITION .					

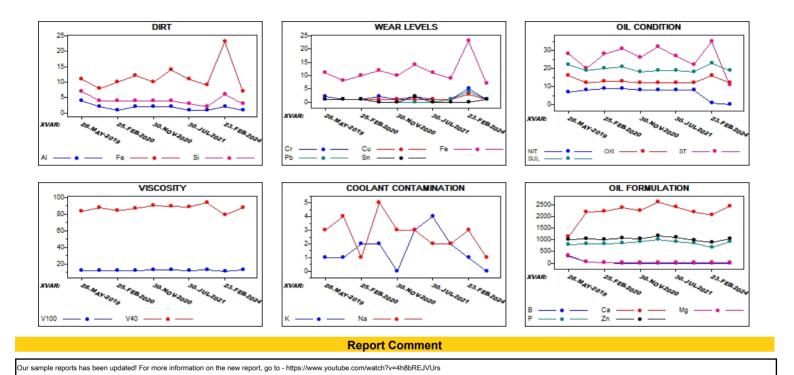
	CONDITION / CONTAMINATION									
04-Jul-24 23-Feb-24 02-Dec-21 30-Jul-2										
VISCO	OSITY (CENTISTOKES) A	STM D445								
V100	Viscosity at 100 C	12.34	11.35	12.6	12.2					

For additional sample history, go to:

		WEAR LE	VELS / ADDI	TIVES								
		04-Jul-24	23-Feb-24	02-Dec-21	30-Jul-21							
ELEM	ELEMENTAL ANALYSIS (PPM) ASTM D5185 [OIL] / ASTM D6130 [COOLANT]											
Cu	Copper	1	3	1	1							
Fe	Iron	7	23	9	11							
Cr	Chromium	1	5	1	1							
Al	Aluminum	1	2	1	1							
Pb	Lead	1	4	1	0							
Sn	Tin	1	0	0	0							
Si	Silicon	3	6	2	3							
Na	Sodium	1	3	2	2							
K	Potassium	0	1	2	4							
Мо	Molybdenum	1	0	1	1							
Ni	Nickel	0	1	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							
Са	Calcium	2417	2071	2184	2390							
Р	Phosphorus	908	682	849	911							
Zn	Zinc	1052	878	991	1108							
Mg	Magnesium	13	11	9	11							
Ва	Barium	0	0	0	0							
В	Boron	3	2	1	2							

VISCO	OSITY (CENTISTOKES) A	STM D445												
V40	Viscosity at 40 C	87.94	79.22	93.4	88.3									
VISCO	/ISCOSITY INDEX													
VI	Viscosity Index	135	135	130	132									
INFR/	ARED (UFM) ASTM E2412	1												
ST	Soot	11	35	22	27									
OXI	Oxidation	12	16	12	12									
SUL	Sulfur Products	19	23	18	19									
NIT	Nitration	0	1	8	8									
WATE	ER - HOTPLATE													
W	Water	N	N	N	N									
FUEL	DILUTION (SCREEN)													
F	Fuel	N	N	N	N									
FUEL	DILUTION (%) ASTM D75	i93												
PFc	Percent Fuel	4.884	5.95	3.83	4.29									

	CLEANLINESS										
		04-Jul-24	23-Feb-24	02-Dec-21	30-Jul-21						
FERF	ROUS DEBRIS										
PQI	PQ Index	0	0		6						



William Adams



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

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SGS SGS

ENGINE TRUCK

T010-51084-0239

LABEL#:

SHOP JOB NUM:

SAMPLE SHIP TIME (days): 6

WHELANS GROUP INVESTMENTS PTY LTD

LOCATION: WORKSHOP

EQUIP NUM: TK48



No Action Required

SERIAL NUMBER: TK48_WHELANS

Interp By: Tom Cokalis
Interpreted On: 12-Apr-21

my.cat.com

OIL CONDITION SATISFACTORY, CONTINUE SAMPLING AT THE RECOMMENDED INTERVAL.

	SAMPLE INFORMATION									
		1		\triangle						
Sampled Date	19-Mar-21	30-Nov-20	15-Jul-20	25-Feb-20						
Sample Id	T010-51084-0239	T010-50342-0224	T010-50202-0222	T010-50062-0350						
Lab Date	25-Mar-21	07-Dec-20	20-Jul-20	02-Mar-20						
Meter [Hr]	596000	586000	576000	564712						
Meter On Fluid	10000	10000	11288	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							

					Pl	REVIO	US SA	MPLE				
PQ IS		ELEVAT	ED.	POS	SSIBLE	FUEL	DILUTI	ON O	CCURING	, IN	VESTIGATE	AND
EVALUA ⁻	ГΕ	СОМ	PARTI	MENT	CONDI	TION.	SUG	GEST	CUT	OPEN	FILTER(S)	AND
INSPECT	•	FOR	DEB	RIS.	MOI	NITOR	COMPA	RTMENT	FOR	RISING	OIL	LEVEL.
CHECK		& ENS	SURE	THIS	COM	PARTME	NT OF	ERATING	G COF	RECTLY.	WE	WILL
MONITOR	2	ACTIVI	TY	OVER	THE	NEXT	FEW	SAMPL	ES.	RESAME	PLE AT	HALF
THE REC	OM	IMENDED	INTER	RVAL.								

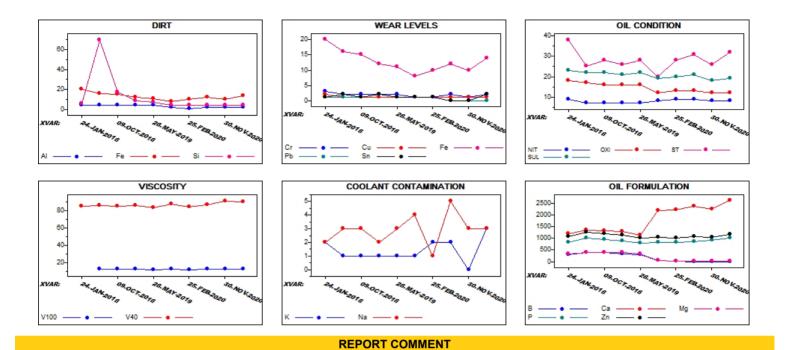
	CONDITION / CONTAMINATION									
		19-Mar-21	30-Nov-20	15-Jul-20	25-Feb-20					
VISCO	OSITY (CENTISTOKES) A	STM D445								
V100	Viscosity at 100 C	12.3	12.4	12.0	11.7					

For additional sample history, go to:

	WEAR LEVELS / ADDITIVES											
		19-Mar-21	30-Nov-20	15-Jul-20	25-Feb-20							
ELEM	ELEMENTAL ANALYSIS (PPM) ASTM D5185 [OIL] / ASTM D6130 [COOLANT]											
Cu	Copper	1	1	1	<1							
Fe	Iron	14	10	12	10							
Cr	Chromium	2	1	2	1							
Al	Aluminum	2	2	2	1							
Pb	Lead	0	0	0	<1							
Sn	Tin	2	0	0	<1							
Si	Silicon	4	4	4	4							
Na	Sodium	3	3	5	<1							
K	Potassium	3	0	2	2							
Мо	Molybdenum	0	1	0	2							
Ni	Nickel	0	1	0	<1							
Ag	Silver	0	0	0	<1							
Ti	Titanium	0	0	0	<1							
V	Vanadium	0	0	0	<1							
Mn	Manganese	0	0	0	<1							
Cd	Cadmium	0	0	0	<1							
Ca	Calcium	2599	2246	2360	2222							
Р	Phosphorus	993	929	849	810							
Zn	Zinc	1169	1024	1074	997							
Mg	Magnesium	9	10	9	16							
Ва	Barium	0	0	0								
В	Boron	1	2	1	7							

VISCO	OSITY (CENTISTOKES) AS	TM D445			
V40	Viscosity at 40 C	89.5	90.4	86.6	84.4
VISCO	OSITY INDEX				
VI	Viscosity Index	132	132	132	130
INFR/	RED (UFM) ASTM E2412				
ST	Soot	32	26	31	28
OXI	Oxidation	12	12	13	13
SUL	Sulfur Products	19	18	21	20
NIT	Nitration	8	8	9	9
WATE	R - HOTPLATE				
W	Water	N	N	N	N
FUEL	DILUTION (SCREEN)				
F	Fuel	N	N	N	Р
-					
FUEL	DILUTION (%) ASTM D759	3			
PFc	Percent Fuel	4.11	4.77	5.21	6.25
•					

CLEANLINESS												
	19-Mar-21 30-Nov-20 15-Jul-20 25-											
FERROUS DEBRIS												
PQI	PQ Index	7	35	5	3							



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

SAMPLING



ENGINE TRUCK

T010-51217-0622 SAMPLE SHIP TIME (days) : 6

WHELANS GROUP INVESTMENTS PTY LTD

LOCATION: WORKSHOP RECEIVED DATE: 05-Aug-21 BRANCH REC DT: 05-Aug-21

EQUIP NUM: TK48

ISUZU FFR500

FUEL



Monitor Compartment

DILUTION

OCCURING,

SERIAL NUMBER: TK48_WHELANS

Interp By: Barry Swindells

Interpreted On: 10-Aug-21

E RECOMMENDED INTERVAL TO

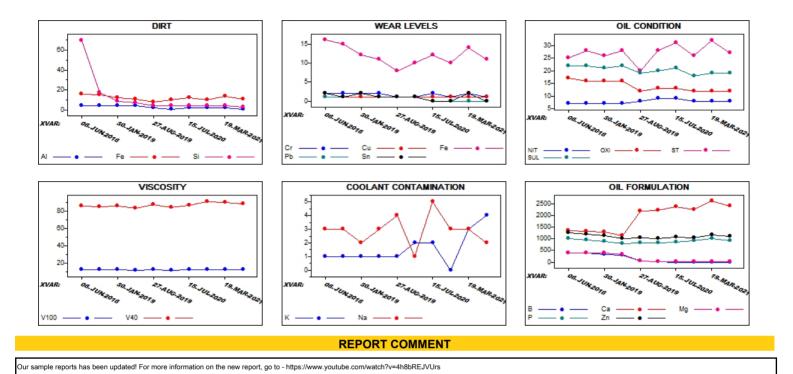
POSSIBLE MONITOR.

		SAMPLE INFORMA	TION	
	1	✓	1	1
Sampled Date	30-Jul-21	19-Mar-21	30-Nov-20	15-Jul-20
Sample Id	T010-51217-0622	T010-51084-0239	T010-50342-0224	T010-50202-0222
Lab Date	05-Aug-21	25-Mar-21	07-Dec-20	20-Jul-20
Meter [Hr]	613000	596000	586000	576000
Meter On Fluid	10000	10000	10000	11288
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

		PREVIOU	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		
		30-Jul-21	19-Mar-21	30-Nov-20	15-Ju	ıl-20
VISC	OSITY (CENTISTO)	KES) ASTM D445				
V100	Viscosity at 100	C 12.2	12.3	12.4	12.	0
VISC	OSITY (CENTISTO)	KES) ASTM D445				
V40	Viscosity at 40 C	88.3	89.5	90.4	86.	6

		WEAR LE	VELS / ADDI	TIVES		
		30-Jul-21	19-Mar-21	30-Nov-20	15-Jul-20	
ELEM	ENTAL ANALYSIS (PP	M) ASTM D5185 [OIL] / ASTM D6130	[COOLANT]		
Cu	Copper	1	1	1	1	
Fe	Iron	11	14	10	12	
Cr	Chromium	1	2	1	2	
Al	Aluminum	1	2	2	2	
Pb	Lead	0	0	0	0	
Sn	Tin	0	2	0	0	
Si	Silicon	3	4	4	4	
Na	Sodium	2	3	3	5	
K	Potassium	4	3	0	2	
Мо	Molybdenum	1	0	1	0	
Ni	Nickel	0	0	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	2390	2599	2246	2360	
Р	Phosphorus	911	993	929	849	
Zn	Zinc	1108	1169	1024	1074	
Mg	Magnesium	11	9	10	9	
Ва	Barium	0	0	0	0	
В	Boron	2	1	2	1	

VISCO	OSITY INDEX				
VI	Viscosity Index	132	132	132	132
INFR/	ARED (UFM) ASTM E241	2			
ST	Soot	27	32	26	31
OXI	Oxidation	12	12	12	13
SUL	Sulfur Products	19	19	18	21
NIT	Nitration	8	8	8	9
WATE	R - HOTPLATE				
W	Water	N	N	N	N
FUE	DILLITION (CODEFAI)				
	DILUTION (SCREEN)	N	N	N	N
F	Fuel	IN	IN	N	N
FUEL	DILUTION (%) ASTM D7	593			
PFc	Percent Fuel	4.29	4.11	4.77	5.21
		CLEAN	LINESS		
		30-Jul-21	19-Mar-21	30-Nov-20	15-Jul-20
FERR	OUS DEBRIS				
PQI	PQ Index	6	7	35	5



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 thereof.



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ENGINE TRUCK

T010-51357-0713SAMPLE SHIP TIME (days): 21

WHELANS GROUP INVESTMENTS PTY LTD

LOCATION: B DALE
RECEIVED DATE: 23-Dec-21
BRANCH REC DT: 23-Dec-21

EQUIP NUM: TK48

SERIAL NUMBER: TK48_WHELANS

ISUZU FFR500



No Action Required

Interp By: Barry Swindells Interpreted On: 12-Jan-22

OIL CONDITION SATISFACTORY, CONTINUE SAMPLING AT THE RECOMMENDED INTERVAL. THE TEST FOR PQ IS CURRENTLY UNAVAILABLE DUE TO INSTRUMENT DOWN.

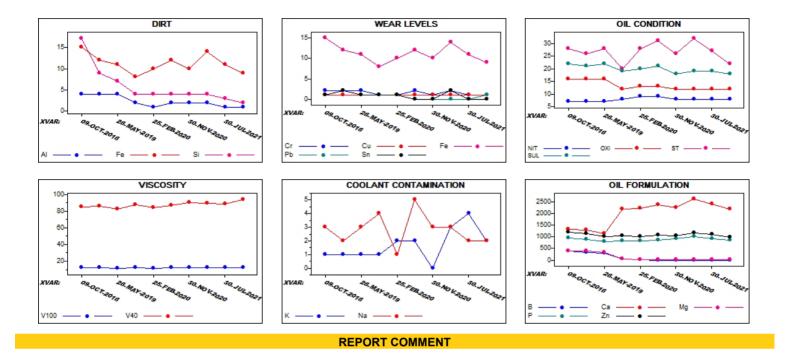
SAMPLE INFORMATION											
		2									
Sampled Date	02-Dec-21	30-Jul-21	19-Mar-21	30-Nov-20							
Sample Id	T010-51357-0713	T010-51217-0622	T010-51084-0239	T010-50342-0224							
Lab Date	23-Dec-21	05-Aug-21	25-Mar-21	07-Dec-20							
Meter [Hr]	626000	613000	596000	586000							
Meter On Fluid	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]	120	0		0							

			PREVIOUS	SAMPLE			
POSSIE	LE FUEL MENDED INTERV	DILUTION AL TO MONITO	OCCURING DR.	, CONTINUE	SAMPLING	АТ	THE
	For	additional sar	nple history, go	to:	my.cat.com		
		CON	IDITION / CO	ONTAMINATIO	ON		
			02-Dec-21	30-Jul-21	19-Mar-21	30-No	v-20
VISCO	SITY (CENTIST	TOKES) ASTI	M D445				
V100	Viscosity at 1	00 C	12.6	12.2	12.3	12.4	
VISCO	OSITY (CENTIST Viscosity at 4	•	M D445 93.4	88.3	89.5	90.4	
	instance at i						

		WEAR LE\	/ELS / ADDI	TIVES	
		02-Dec-21	30-Jul-21	19-Mar-21	30-Nov-20
ELEN	MENTAL ANALYSIS (PP	M) ASTM D5185 [OIL]	/ ASTM D6130	[COOLANT]	
Cu	Copper	1	1	1	1
Fe	Iron	9	11	14	10
Cr	Chromium	1	1	2	1
Al	Aluminum	1	1	2	2
Pb	Lead	1	0	0	0
Sn	Tin	0	0	2	0
Si	Silicon	2	3	4	4
Na	Sodium	2	2	3	3
K	Potassium	2	4	3	0
Мо	Molybdenum	1	1	0	1
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	2184	2390	2599	2246
Р	Phosphorus	849	911	993	929
Zn	Zinc	991	1108	1169	1024
Mg	Magnesium	9	11	9	10
Ва	Barium	0	0	0	0
В	Boron	1	2	1	2

VISCO	DSITY INDEX				
VI	Viscosity Index	130	132	132	132
INFR/	ARED (UFM) ASTM E241	2			
ST	Soot	22	27	32	26
OXI	Oxidation	12	12	12	12
SUL	Sulfur Products	18	19	19	18
NIT	Nitration	8	8	8	8
WATE	R - HOTPLATE				
W	Water	N	N	N	N
	DILUTION (SCREEN)	N	N	N	N
F	Fuel	N	IN	IN	N
FUEL	DILUTION (%) ASTM D7	7593			
PFc	Percent Fuel	3.83	4.29	4.11	4.77
		CLEAN	LINESS		
		02-Dec-21	30-Jul-21	19-Mar-21	30-Nov-20
FERR	OUS DEBRIS				
PQI	PQ Index		6	7	35





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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Interp By: Tom Cokalis

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): 7

SAMPLE LOCATION: WORKSHOP

No Action Required

OIL CONDITION SATISFACTORY, CONTINUE SAMPLING AT THE RECOMMENDED INTERVAL.

LAB#

T010-49155-0111

	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	К	Мо	Ni	Ag	Ti	٧	Mn	Cd	Ca	Р	Zn	Mg	В
28-May-19	T010-49155-0111	544000	10000	Υ	Υ	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	Υ	Υ	<1	12	2	4	2	2	9	2	<1	80	<1	<1	<1	<1	<1	<1	1279	872	1140	380	337
09-Oct-18	T010-48284-0220	524000	10000	Υ	Υ	1	15	2	4	1	1	17	3	<1	85	<1	<1	<1	<1	<1	<1	1309	934	1186	379	381
08-Jun-18	T010-48165-0124	513800	10000	Y	Y	1	16	2	4	1	2	69	3	<1	91	<1	<1	<1	<1	<1	<1	1352	1015	1240	375	381

	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										
28-May-19	T010-49155-0111	FUCHS	CARGO	15W-40	Υ	Υ	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	Р	6.04
09-Oct-18	T010-48284-0220	FUCHS	CATGO	15W-40	Y	Y	12.0	85.1	135	28	16	22	7	N	Р	6.50
08-Jun-18	T010-48165-0124	FUCHS	CARGO	15W-40	Υ	Υ	12.2	85.8	137	25	17	22	7	N	N	4.38

	OIL CLEANLINESS									
SAMPLE	SAMPLE ID	FLUID	FILTER	PQI						
DATE		CHANGE	CHANGE							
28-May-19	T010-49155-0111	Y	Υ	2						
30-Jan-19	T010-49035-0220	Υ	Y	0						
09-Oct-18	T010-48284-0220	Υ	Y	0						
08-Jun-18	T010-48165-0124	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: Tom Cokalis

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): 7

SAMPLE LOCATION: WORKSHOP

Monitor

Compartment

FUEL TEST INDICATES 5.2% BY VOLUME OF FUEL DILUTION. 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. MONITOR

COMPARTMENT FOR RISING OIL LEVEL. WEAR METAL LEVELS ARE ACCEPTABLE. 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-

LAB # WILL MONITOR ACTIVIT'

TO 10 10010 0700 FVALUATE CONDITION

T010-49246-0722

		WEAR/0	CONTAMINATION -	ADDITIVES/F	ORMULATION																					
SAMPLE DATE	SAMPLE ID	METER (KM)	METER ON FLUID	FLUID CHANGE	FILTER CHANGE	Cu	Fe	Cr	Al	Pb	Sn	Si	Na	К	Мо	Ni	Ag	Ti	٧	Mn	Cd	Ca	Р	Zn	Mg	В
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	Υ	Υ	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	Υ	Υ	<1	12	2	4	2	2	9	2	<1	80	<1	<1	<1	<1	<1	<1	1279	872	1140	380	337
09-Oct-18	T010-48284-0220	524000	10000	Υ	Υ	1	15	2	4	1	1	17	3	<1	85	<1	<1	<1	<1	<1	<1	1309	934	1186	379	381

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										
27-Aug-19	T010-49246-0722	FUCHS	CARGO	15W-40	Υ	Υ	12.0	87.7	130	20	12	19	8	N	N	5.19
28-May-19	T010-49155-0111	FUCHS	CARGO	15W-40	Y	Υ	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	Р	6.04
09-Oct-18	T010-48284-0220	FUCHS	CATGO	15W-40	Y	Υ	12.0	85.1	135	28	16	22	7	N	Р	6.50

ı	OIL CLEANLINESS											
	SAMPLE	SAMPLE ID	FLUID	FILTER	PQI							
	DATE		CHANGE	CHANGE								
	27-Aug-19	T010-49246-0722	Y	Υ	1							
L	28-May-19	T010-49155-0111	Y	Y	2							
L	30-Jan-19	T010-49035-0220	Y	Y	0							
	09-Oct-18	T010-48284-0220	Υ	Υ	0							

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