

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

Phone: 03 9566 0666

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



ENGINE

T010-51293-0620

SHOP JOB NUM : WGI2110 SAMPLE SHIP TIME (days) : 28

WHELANS GROUP INVESTMENTS PTY LTD

WHELANS GROUP

INVESTMENTS - BRUTHEN

QUARRY

LOCATION: NAMBROK

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

EQUIP NUM: R2



Monitor Compartment

SERIAL NUMBER: 8RZ00339

COMP SERIAL NUM: 4ZW01553

Interp By: Tom Cokalis
Interpreted On: 25-Oct-21

SILICON AND ALUMINIUM ARE SLIGHTLY HIGH. CHECK FILTER MEDIUM AND SCREENS FOR WEAR MATERIAL AND CONTAMINATION. AS THE OIL HAS BEEN CHANGED. ALL OTHER TEST RESULTS APPEAR ACCEPTABLE. WE WILL MONITOR ACTIVITY OVER THE NEXT FEW SAMPLES. CONTINUE SAMPLING AT THE RECOMMENDED INTERVAL.

		SAMPLE INFORMAT	TION
	1	1	
Sampled Date	22-Sep-21	21-Jun-18	
Sample Id	T010-51293-0620	T010-48172-0821	
Lab Date	20-Oct-21	21-Jun-18	
Meter [Hr]	2103.0	1943	
Comp Meter [Hr]		1943	
Meter On Fluid	160.0	1943	
Fluid Brand	CAT	CAT	
Fluid Weight	15W-40	15W-40	
Fluid Type	DEO	DEO	
Fluid Change	Υ	Υ	
Filter Change	Υ	Υ	
PM Level		2000	

WEAR LEVELS / ADDITIVES

ļ	PREVIOUS SAMPLE
	SILICON IS SLIGHTLY HIGH. LEVELS MAY BE ACCEPTABLE DUE TO RECENT
	REPAIRS. SHOULD SETTLE DOWN AFTER TWO OR THREE OIL CHANGES
	CHECK AIR CLEANER AND AIR INLET SYSTEM FOR FAULTS. SUGGEST CUT
	OPEN FILTER(S) AND INSPECT FOR DEBRIS. CHECK FOR LEAKS. CHECK 8
	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.

For additional sample history, go to: my.cat.com

CONDITION / CONTAMINATION

22-Sep-21 21-Jun-18

105.4

VISCOSITY (CENTISTOKES) ASTM D445

VISCOSITY (CENTISTOKES) ASTM D445

V40 Viscosity at 40 C

FUEL DILUTION (SCREEN)
F Fuel

PFc Percent Fuel

VISCOSITY INDEX

V100 Viscosity at 100 C 12.9 13.4

		22-Sep-21	21-Jun-18						
ELEME	ELEMENTAL ANALYSIS (PPM) ASTM D5185 [OIL] / ASTM D6130 [COOLANT]								
Cu	Copper	6	4						
Fe	Iron	42	23						
Cr	Chromium	1	1						
Al	Aluminum	25	16						
Pb	Lead	0	2						
Sn	Tin	0	2						
Si	Silicon	28	30						
Na	Sodium	5	6						
K	Potassium	4	1						
Мо	Molybdenum	46	35						
Ni	Nickel	0	<1						
Ag	Silver	0	<1						
Ti	Titanium	0	<1						
V	Vanadium	0	<1						
Mn	Manganese	1	<1						
Cd	Cadmium	0	<1						
Ca	Calcium	1886	1569						
Р	Phosphorus	1008	822						
Zn	Zinc	1254	1073						
Mg	Magnesium	625	656						
Ва	Barium	0							
В	Boron	50	39						

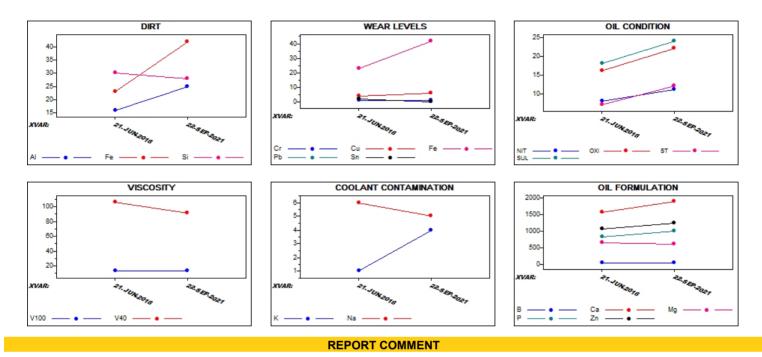
VI	Viscosity Index	139	125	
INFR	ARED (UFM) ASTM E241	2		
ST	Soot	12	7	
OXI	Oxidation	22	16	
SUL	Sulfur Products	24	18	

NIT	Nitration	11	8
WATER	- HOTPLATE		
w	Water	N	N

FUEL DILUTION (%) ASTM D7593		

		CLEA	NLINESS	
		22-Sep-21	21-Jun-18	
FERR	OUS DEBRIS			
PQI	PQ Index	0	3	







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CHANGED.

AT THE RECOMMENDED INTERVAL.



ENGINE

T010-52070-0228 SHOP JOB NUM: wgi2203

SAMPLE SHIP TIME (days): 3 WHELANS GROUP

INVESTMENTS PTY LTD

WHELANS GROUP INVESTMENTS - BRUTHEN

QUARRY

LOCATION: longford RECEIVED DATE: 11-Mar-22

BRANCH REC DT: 11-Mar-22

EQUIP NUM: R2

CAT CB224D

SERIAL NUMBER: 8RZ00339 COMP SERIAL NUM: 4ZW01553

> Interp By: Tom Cokalis Interpreted On: 28-Mar-22

> > WE WILL

CONTINUE SAMPLING

my.cat.com

21-Jun-18

No Action Required

OIL CONDITION SATISFACTORY, CONTINUE SAMPLING AT THE RECOMMENDED INTERVAL.

	SAMPLE INFORMATION						
		1	1				
Sampled Date	08-Mar-22	22-Sep-21	21-Jun-18				
Sample Id	T010-52070-0228	T010-51293-0620	T010-48172-0821				
Lab Date	11-Mar-22	20-Oct-21	21-Jun-18				
Meter [Hr]		2103.0	1943				
Comp Meter [Hr]			1943				
Meter On Fluid		160.0	1943				
Fluid Brand	CAT	CAT	CAT				
Fluid Weight	15W-40	15W-40	15W-40				
Fluid Type	DEO	DEO	DEO				
Fluid Change		Υ	Υ				
Filter Change		Υ	Υ				
PM Level			2000				

	•			
Sampled Date	08-Mar-22	22-Sep-21	21-Jun-18	
Sample Id	T010-52070-0228	T010-51293-0620	T010-48172-0821	
Lab Date	11-Mar-22	20-Oct-21	21-Jun-18	
Meter [Hr]		2103.0	1943	
Comp Meter [Hr]			1943	
Meter On Fluid		160.0	1943	
Fluid Brand	CAT	CAT	CAT	
Fluid Weight	15W-40	15W-40	15W-40	
Fluid Type	DEO	DEO	DEO	
Fluid Change		Υ	Υ	
Filter Change		Υ	Υ	
PM Level			2000	

MEAD LEVELS / ADDITIVES

	WEAR LEVELS / ADDITIVES							
		08-Mar-22	22-Sep-21	21-Jun-18				
ELEMENTAL ANALYSIS (PPM) ASTM D5185 [OIL] / ASTM D6130 [COOLANT]								
Cu	Copper	1	6	4				
Fe	Iron	7	42	23				
Cr	Chromium	0	1	1				
Al	Aluminum	4	25	16				
Pb	Lead	0	0	2				
Sn	Tin	0	0	2				
Si	Silicon	9	28	30				
Na	Sodium	4	5	6				
K	Potassium	1	4	1				
Мо	Molybdenum	43	46	35				
Ni	Nickel	0	0	<1				
Ag	Silver	0	0	<1				
Ti	Titanium	0	0	<1				
V	Vanadium	0	0	<1				
Mn	Manganese	0	1	<1				
Cd	Cadmium	0	0	<1				
Са	Calcium	1629	1886	1569				
Р	Phosphorus	976	1008	822				
Zn	Zinc	1121	1254	1073				
Mg	Magnesium	511	625	656				
Ва	Barium	0	0					
В	Boron	69	50	39				

VISCO	SITY (CENTISTOKES) AS	TM D445							
V100	Viscosity at 100 C	12.74	12.9	13.4					
VISCO	VISCOSITY (CENTISTOKES) ASTM D445								
V40	Viscosity at 40 C	90.96	91.2	105.4					
VISCO	SITY INDEX								
VI	Viscosity Index	136	139	125					
INFRA	RED (UFM) ASTM E2412								
ST	Soot	0	12	7					
OXI	Oxidation	19	22	16					
SUL	Sulfur Products	23	24	18					
NIT	Nitration	6	11	8					
WATE	R - HOTPLATE								
W	Water	N	N	N					
FUEL	DILUTION (SCREEN)								
F	Fuel	N	N	N					
FUEL I	DILUTION (%) ASTM D759	3							
PFc	Percent Fuel		5.17						

CLEANLINESS

22-Sep-21

0

08-Mar-22

FERROUS DEBRIS PQ Index

PREVIOUS SAMPLE SILICON AND ALUMINIUM ARE SLIGHTLY HIGH. CHECK FILTER MEDIUM

ALL OTHER TEST RESULTS APPEAR ACCEPTABLE.

CONDITION / CONTAMINATION

MONITOR ACTIVITY OVER THE NEXT FEW SAMPLES.

For additional sample history, go to:

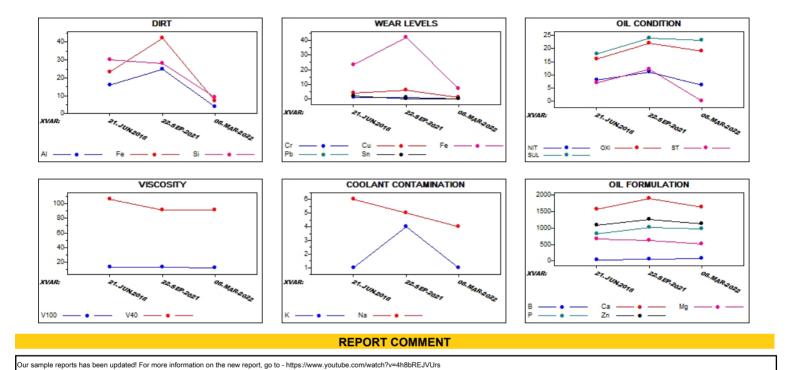
08-Mar-22

WEAR MATERIAL AND CONTAMINATION. AS THE OIL HAS

22-Sep-21

21-Jun-18







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REFRACTIVE INDEX



RADIATOR

EQUIP NUM: R2

SERIAL NUMBER: 8RZ00339

T010-53191-2010

SHOP JOB NUM : 2W89282 SAMPLE SHIP TIME (days) : 3

WHELANS GROUP

INVESTMENTS PTY LTD
WHELANS GROUP

INVESTMENTS - BRUTHEN

QUARRY

LOCATION: NAMBROK
RECEIVED DATE: 10-Jul-23

CAT CB224D

No Action Required

Interp By: Barry Swindells
Interpreted On: 14-Jul-23

COOLANT CONDITION SATISFACTORY, CONTINUE SAMPLING AT THE RECOMMENDED INTERVAL.

SAMPLE INFORMATION					
	1	-			
Sampled Date	07-Jul-23	21-Jun-18			
Sample Id	T010-53191-2010	T010-48172-2022			
Lab Date	10-Jul-23	21-Jun-18			
Meter [Hr]	2147	1943			
Comp Meter [Hr]		1943			
Meter On Fluid	2147	1943			
Fluid Brand	CAT	CAT			
Fluid Weight					
Fluid Type	ELC	FACTORY FILL			
Fluid Change	N	N			
Filter Change	NA				
PM Level	0	2000			

COOLAN		SATISFACTORY,	CONTINUE	SAMPLING	АТ	THE
RECOMM	ENDED INTERVAL.					
	For addition	al sample history, go to	:	my.cat.com		
	,	ADDITIONAL CHA	RACTERIST	CS		
		07-Jul-23	21-Jun-18			
ION CH	ROMATOGRAPHY (P	PM) ASTM D4327				
CL	Chloride	4	34			
SO4	Sulfate	8	3			
ADDITI	ONAL ANALYTES					
TH	Total Hardness	3	0			

PREVIOUS SAMPLE

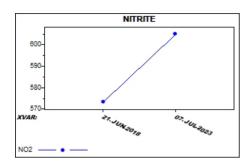
	CORROSION LEVELS/ CHEMISTRY										
	07-Jul-23 21-Jun-18										
ELEMENTAL ANALYSIS (PPM) ASTM D5185 [OIL] / ASTM D6130 [COOLANT]											
Cu	Copper	0	<1								
Fe	Iron	0	<1								
Pb	Lead	0	<1								
Sn	Tin	0	5								
Al	Aluminum	0	2								
Zn	Zinc	0	<1								
Na	Sodium	3528	3587								
K	Potassium	8	51								
Мо	Molybdenum	515	147								

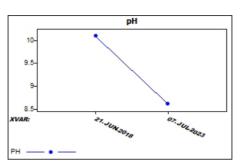
GL	Glycol (%)	50	52	
FP	Freeze Point (°C)	-37	-41	
BP	Boil Point (°C)	107	108	
рН				
рН	pН	8.6	10.1	
COND	UCTIVITY (µS/cm)			
CON	Conductivity	3394	4216	
	•			

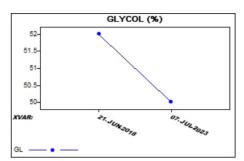
ION CH	ION CHROMATOGRAPHY (PPM) ASTM D4327									
NO2	Nitrite	605	573							
NO3	Nitrate	23	38							
GLO	Glycolate	80	356							
	•									
ADDIT	IONAL ANALYTES									
		050	246							
MoO4	Molybdate	859	246							
воз	Borate	0	0							
SiO3	Silicate	16	7							

PHYSICAL CHARACTERISTICS							
		07-Jul-23	21-Jun-18				
PHYSICALS							
Color	Color	red	red				
App	Appearance	clear	clear				
Odor	Odor	norm	norm				
Oil	Oil	none	none				
Foam	Foam	norm	norm				
PAmt	Precip Amount	trace	none				
PApp	Precip Appearanc	granular	N/A				
PCol	Precip Color	wht sol	N/A				
DDron	Procin Proporty	non-mag	N/A				









Report Comment



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ENGINE

T010-53191-0241

SHOP JOB NUM : 2W89282 SAMPLE SHIP TIME (days) : 3

WHELANS GROUP INVESTMENTS PTY LTD

WHELANS GROUP

INVESTMENTS - BRUTHEN

QUARRY

LOCATION: NAMBROK
RECEIVED DATE: 10-Jul-23

EQUIP NUM: R2 CAT CB224D

COMP No Action Required

No Action Required

SERIAL NUMBER: 8RZ00339 COMP SERIAL NUM: 4ZW01553

Interp By: Barry Swindells Interpreted On: 14-Jul-23

OIL CONDITION SATISFACTORY, CONTINUE SAMPLING AT THE RECOMMENDED INTERVAL.

SAMPLE INFORMATION									
		-							
Sampled Date	07-Jul-23	10-Aug-22	08-Mar-22	22-Sep-21					
Sample Id	T010-53191-0241	T010-52227-0423	T010-52070-0228	T010-51293-0620					
Lab Date	10-Jul-23	15-Aug-22	11-Mar-22	20-Oct-21					
Meter [Hr]	2147	2103		2103.0					
Meter On Fluid	2147	2103		160.0					
Fluid Brand	CAT	CAT	CAT	CAT					
Fluid Weight	15W-40	15W-40	15W-40	15W-40					
Fluid Type	DEO	DEO	DEO	DEO					
Fluid Change	Υ	N		Υ					
Filter Change	Υ	N		Υ					
Total Fluid Added	0	0	0	0					

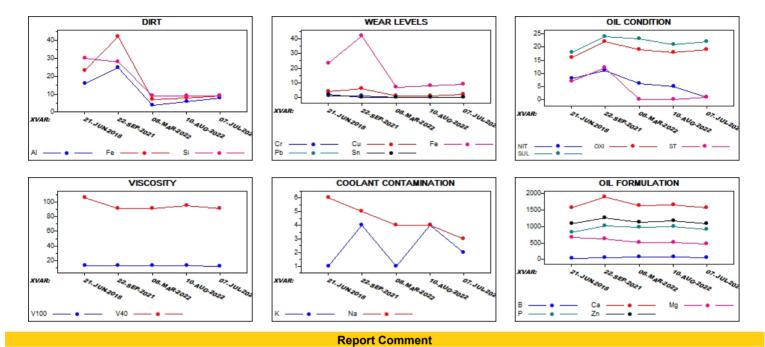
		PREVIOU	S SAMPLE							
OIL RECOM	CONDITION MENDED INTERVAL	SATISFACTORY,	CONTINUE	SAMPLING	ΑТ	THE				
	For additional sample history, go to: my.cat.com									
	CONDITION / CONTAMINATION									
		07-Jul-23	10-Aug-22	08-Mar-22	22-Se	p-21				
VISC	OSITY (CENTISTO	KES) ASTM D445								
V100	Viscosity at 100	C 12.60	12.97	12.74	12.	9				
VISC	OSITY (CENTISTO	KES) ASTM D445								
V40	Viscosity at 40 (90.84	94.60	90.96	91.	2				

	WEAR LEVELS / ADDITIVES									
		07-Jul-23	10-Aug-22	08-Mar-22	22-Sep-21					
ELEMENTAL ANALYSIS (PPM) ASTM D5185 [OIL] / ASTM D6130 [COOLANT]										
Cu	Copper	2	1	1	6					
Fe	Iron	9	8	7	42					
Cr	Chromium	0	0	0	1					
Al	Aluminum	8	6	4	25					
Pb	Lead	0	0	0	0					
Sn	Tin	0	0	0	0					
Si	Silicon	9	9	9	28					
Na	Sodium	3	4	4	5					
K	Potassium	2	4	1	4					
Мо	Molybdenum	39	43	43	46					
Ni	Nickel	0	0	0	0					
λg	Silver	0	0	0	0					
Гі	Titanium	0	0	0	0					
/	Vanadium	0	0	0	0					
Mn	Manganese	0	0	0	1					
Cd	Cadmium	0	0	0	0					
Са	Calcium	1562	1664	1629	1886					
>	Phosphorus	916	986	976	1008					
Zn	Zinc	1084	1168	1121	1254					
Иg	Magnesium	459	510	511	625					
За	Barium	0	0	0	0					
В	Boron	62	72	69	50					

VISC	OSITY INDEX				
VI	Viscosity Index	135	135	136	139
INFR/	ARED (UFM) ASTM E2412	2			
ST	Soot	1	0	0	12
OXI	Oxidation	19	18	19	22
SUL	Sulfur Products	22	21	23	24
NIT	Nitration	1	5	6	11
WATE	ER - HOTPLATE				
W	Water	N	N	N	N
ELIEL	DILUTION (SCREEN)				
	•	N	N	N	N
F	Fuel	IN	IN	IN	IN
FUEL	DILUTION (%) ASTM D7	593			
PFc	Percent Fuel	2.28	2.77		5.17
		CLEAN	LINESS		
		07-Jul-23	10-Aug-22	08-Mar-22	22-Sep-21
FERR	OUS DEBRIS				
PQI	PQ Index	0	0	0	0

COMP SERIAL NUM: 4ZW01553







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HYDRAULIC SYSTEM

T010-53191-0304

SHOP JOB NUM : 2W89282 SAMPLE SHIP TIME (days) : 3

WHELANS GROUP INVESTMENTS PTY LTD

WHELANS GROUP

INVESTMENTS - BRUTHEN

QUARRY

LOCATION: NAMBROK
RECEIVED DATE: 10-Jul-23

EQUIP NUM: R2

SERIAL NUMBER: 8RZ00339

CAT CB224D



No Action Required

Interp By: Tom Cokalis
Interpreted On: 13-Jul-23

OIL CONDITION SATISFACTORY, CONTINUE SAMPLING AT THE RECOMMENDED INTERVAL.

SAMPLE INFORMATION							
		1					
Sampled Date	07-Jul-23	21-Jun-18					
Sample Id	T010-53191-0304	T010-48172-0804					
Lab Date	10-Jul-23	21-Jun-18					
Meter [Hr]	2147.	1943					
Comp Meter [Hr]	2147.0	1943					
Meter On Fluid	204.0	1943					
Fluid Brand	CAT	CAT					
Fluid Weight	10W	10W					
Fluid Type	HYD	HYD					
Fluid Change	N	Υ					
Filter Change	Υ	Υ					
Make Up Fluid []	4						
PM Level		2000					

					PRI	EVIOL	JS S	AMPLE	Ξ				
ISO	PARTIC	LE C	OUNT	IS	HIGH.	COPF	PER	LEVEL	IS	SLIGHT	TLY E	LEVATE	D, THIS
MAY	BE A	CCEPTA	ABLE	FOR	ORIGIN	NAL F	ILL	OIL.	SHOU	JLD S	SETTLE	DOWN	N AFTER
TWO	OR -	THREE	OIL	CHAN	IGES.	SUC	GEST	CUT	OPE	N FIL	TER(S)	AND	INSPECT
FOR	DEB	RIS.	С	HECK	&	ENS	JRE	THIS	CC	MPAR	TMENT	OP	ERATING
CORR	ECTLY.	AS	THE	OIL	HAS	BEEN	CHA	ANGED.	W	E WIL	L MO	NITOR	ACTIVITY
OVER	THE	NEX	T F	EW	SAMPL	ES.	Al	LL OT	HER	TEST	RES	SULTS	APPEAF
ACCE	PTABLE.	R	ESAMP	LE A	AT TH	E NE	XT	SERVICE	E INT	ERVAL	. 1	MORE	SAMPLES
NEEDE	ED TO D	EVELOP	A TRE	ND.									

For additional sample history, go to:

my.cat.com

CONDITION / CONTAMINATION

07-Jul-23 21-Jun-18

VISCOSITY (CENTISTOKES) ASTM D445

V40 Viscosity at 40 C 40.74 39.3

WEAR LEVE	LS / ADDITIVES
07-Jul-23	21-Jun-18

		U/-JUI-23	21-Jun-18
ELEME	NTAL ANALYSIS (PPM) ASTI	M D5185 [OIL] / A	ASTM D6130 [COOLANT]
Cu	Copper	5	19
Fe	Iron	3	4
Cr	Chromium	0	<1
Al	Aluminum	1	2
Pb	Lead	1	9
Sn	Tin	0	1
Si	Silicon	2	11
Na	Sodium	0	2
K	Potassium	2	<1
Мо	Molybdenum	0	<1
Ni	Nickel	0	<1
Ag	Silver	0	<1
Ti	Titanium	0	<1
V	Vanadium	0	<1
Mn	Manganese	0	<1
Cd	Cadmium	0	<1
Ca	Calcium	265	1708
Р	Phosphorus	690	701
Zn	Zinc	935	932
Mg	Magnesium	2	9
Ва	Barium	0	
В	Boron	0	2

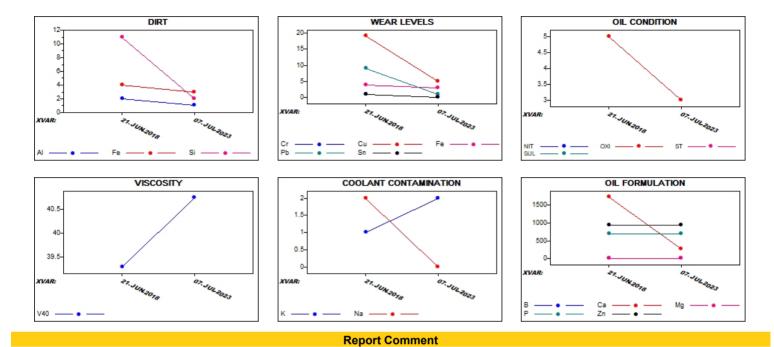
INFR/	ARED (UFM) ASTM E2412			
OXI	Oxidation	3	5	

WATER - HOTPLATE W Water N N

		07-Jul-23	21-Jun-18	
PARTI	CLE COUNT - ISO 111	71:1999 reported per	ISO 4406	
ISO	ISO Code Rating	21/17/12	24/23/17	
4μ	4μ	11628	92076	
6μ	6μ	813	47491	
14µ	14µ	32	1196	
FERRO	OUS DEBRIS			
PQI	PQ Index	0	7	
VISUA	L INSPECTION			
DEP	DEP	N	A1	
DEP2	DEP2	N	DEB	

CLEANLINESS





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

RADIATOR

EQUIP NUM: R2 CAT CB224D

SERIAL NUMBER: 8RZ00339

T010-54178-2036

SHOP JOB NUM: 2W91970 SAMPLE SHIP TIME (days): 6

WHELANS GROUP

INVESTMENTS PTY LTD WHELANS GROUP

INVESTMENTS - BRUTHEN

QUARRY

LOCATION: Bairnsdale RECEIVED DATE: 26-Jun-24 **No Action Required**

Interp By: Hon Yin Tham

Interpreted On: 08-Jul-24

COOLANT CONDITION SATISFACTORY, CONTINUE SAMPLING AT THE RECOMMENDED INTERVAL.

			SAMPLE INFO	RMATION			PREVIOUS	SAMPLE			
					COOL	ANT CONDITION	SATISFACTORY,	CONTINUE	SAMPLING	АТ	THE
Sample	ed Date	20-Jun-24	07-Jul-23	21-Jun-18	RECOM	MMENDED INTERVAL.					
Sample		T010-54178-2036	T010-53191-20	10 T010-48172-2		For addition	onal sample history, go t	o:	S.O.S WEB		
Lab Da		26-Jun-24	10-Jul-23	21-Jun-18			ADDITIONAL CHA	RACTERIST	CS		
Meter [Hr]	2180.0	2147	1943			20-Jun-24	07-Jul-23	21-Jun-18		
Comp I	Meter [Hr]			1943	ION	CHROMATOGRAPHY		07 Jul 25	21 3411 10		
	On Fluid	2180.0	2147	1943	CL	Chloride	2	4	34		
Fluid B		CAT	CAT	CAT	SO4	Sulfate	3	8	3		
Fluid W	_	ELC	ELC	FACTORY FI	504	Sullate	3	Ü	3		
Fluid T		N	N	PACIONI FI							
Fluid C Filter C		NA NA	NA NA	IV		TIONAL ANALYTES		•	•		
		101	107	2000	TH	Total Hardness	4	3	0		
PM Leve	э	0	0								
					REFF	RACTIVE INDEX					
		CORR	OSION LEVEL	S/ CHEMISTRY	GL	Glycol (%)	52	50	52		
			Jun-24 07-Ju		FP	Freeze Point (°C)	-41	-37	-41		
FLEME	ΝΤΔΙ ΔΝΔΙ	YSIS (PPM) ASTM D			BP	Boil Point (°C)	108	107	108		
Cu	Copper		0 0								
Fe	Iron		0 0	<1	pH						
Pb	Lead		0 0	<1	pH	pН	8.8	8.6	10.1		
Sn	Tin		1 0		·	•					
Al	Aluminum		0 0								
Zn	Zinc		0 0		CON	DUCTIVITY (µS/cm)					
Na	Sodium		041 352		CON	Conductivity	5192	3394	4216		
			10 8		0014	Conductivity					
K	Potassium	·	85 51						_		
Мо	Molybdeni	ım -	.05	147			PHYSICAL CHAP		_		
							20-Jun-24	07-Jul-23	21-Jun-18		
		RAPHY (PPM) ASTM				SICALS					
NO2	Nitrite		48 60!		Color	Color	red	red	red		
NO3	Nitrate		33 23		Арр	Appearance	clear	clear	clear		
GLO	Glycolate		52 80	356	Odor	Odor	norm	norm	norm		
					Oil	Oil	none	none	none		
ADDIT	IONAL ANAI				Foam	Foam	norm	norm	norm		
MoO4	Molybdate	9	75 859	9 246	PAmt	Precip Amount	none	trace	none		
ВО3	Borate		0 0	0	PApp	Precip Appearanc	N/A	granular	N/A		
SiO3	Silicate	:	18 16	7	PCol	Precip Color	N/A	wht sol	N/A		

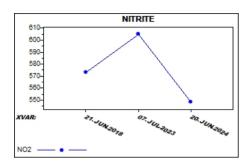
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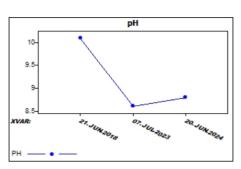
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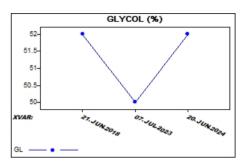
non-mag

PProp Precip Property









Report Comment

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ENGINE

T010-54178-0528

SHOP JOB NUM: 2W91970 SAMPLE SHIP TIME (days): 6

WHELANS GROUP

INVESTMENTS PTY LTD WHELANS GROUP

INVESTMENTS - BRUTHEN

QUARRY

LOCATION: Bairnsdale RECEIVED DATE: 26-Jun-24 **EQUIP NUM: R2**



SERIAL NUMBER: 8RZ00339

COMP SERIAL NUM: 4ZW01553

Interp By: Hon Yin Tham

Interpreted On: 02-Jul-24

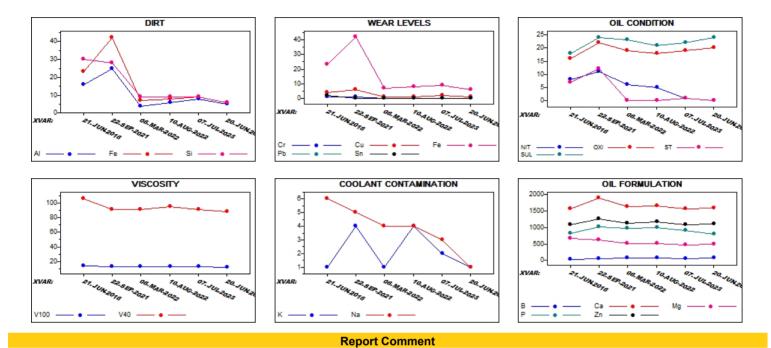
OIL CONDITION SATISFACTORY, CONTINUE SAMPLING AT THE RECOMMENDED INTERVAL.

	S	AMPLE INFORMAT	ΓΙΟΝ	
	1	-		
Sampled Date	20-Jun-24	07-Jul-23	10-Aug-22	08-Mar-22
Sample Id	T010-54178-0528	T010-53191-0241	T010-52227-0423	T010-52070-0228
Lab Date	26-Jun-24	10-Jul-23	15-Aug-22	11-Mar-22
Meter [Hr]	2180.0	2147	2103	
Meter On Fluid	33.0	2147	2103	
Fluid Brand	CAT	CAT	CAT	CAT
Fluid Weight	15W-40	15W-40	15W-40	15W-40
Fluid Type	DEO	DEO	DEO	DEO
Fluid Change	Υ	Υ	N	
Filter Change	Υ	Υ	N	
Total Fluid Added	0	0	0	0

		PREVIOL	JS SAMPLE			
OIL RECOM	CONDITION MENDED INTERVAL.	SATISFACTORY,	CONTINUE	SAMPLING	АТ	THE
	For add	ditional sample history,	go to:	S.O.S WEB		
		CONDITION /	CONTAMINAT	TION		
		20-Jun-24	07-Jul-23	10-Aug-22	08-M	ar-22
VISCO	SITY (CENTISTO	KES) ASTM D445				
V100	Viscosity at 100	C 12.32	12.60	12.97	12.7	74
VISCO	SITY (CENTISTO	KES) ASTM D445				
V40	Viscosity at 40 C	; 87.88	90.84	94.60	90.9	96

		WEAR LEV	ELS / ADD	ITIVES	
		20-Jun-24	07-Jul-23	10-Aug-22	08-Mar-22
ELEM	ENTAL ANALYSIS (F	PPM) ASTM D5185 [OIL]	/ ASTM D613	0 [COOLANT]	
Cu	Copper	1	2	1	1
Fe	Iron	6	9	8	7
Cr	Chromium	0	0	0	0
Al	Aluminum	5	8	6	4
Pb	Lead	0	0	0	0
Sn	Tin	0	0	0	0
Si	Silicon	6	9	9	9
Na	Sodium	1	3	4	4
K	Potassium	1	2	4	1
Мо	Molybdenum	38	39	43	43
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
Са	Calcium	1588	1562	1664	1629
Р	Phosphorus	796	916	986	976
Zn	Zinc	1111	1084	1168	1121
Mg	Magnesium	496	459	510	511
Ва	Barium	0	0	0	0
В	Boron	68	62	72	69

VISCO	OSITY INDEX				
VI	Viscosity Index	135	135	135	136
INFR4	ARED (UFM) ASTM E241	2			
ST	Soot	0	1	0	0
OXI	Oxidation	20	19	18	19
SUL	Sulfur Products	24	22	21	23
NIT	Nitration	0	1	5	6
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	3.33	2.28	2.77	
		CLEAN	LINESS		
		20-Jun-24	07-Jul-23	10-Aug-22	08-Mar-22
FERR	OUS DEBRIS				
PQI	PQ Index	0	0	0	0



3168 Australia

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HYDRAULIC SYSTEM

SHOP JOB NUM: 2W91970

INVESTMENTS PTY LTD

SAMPLE SHIP TIME (days): 6

T010-54178-0303

WHELANS GROUP

WHELANS GROUP INVESTMENTS - BRUTHEN

LOCATION: Bairnsdale RECEIVED DATE: 26-Jun-24

QUARRY

EQUIP NUM: R2

CAT CB224D

SERIAL NUMBER: 8RZ00339



Monitor Compartment

Interp By: Hon Yin Tham Interpreted On: 02-Jul-24

ISO PARTICLE COUNT APPEARS SLIGHTLY ELEVATED. CHECK FILTER MEDIUM AND SCREENS FOR WEAR MATERIAL AND CONTAMINATION. CHECK & ENSURE THIS COMPARTMENT OPERATING CORRECTLY. CHECK FOR LEAKS. AS THE OIL HAS NOT BEEN CHANGED. WE WILL MONITOR ACTIVITY OVER THE NEXT FEW SAMPLES. AFTER INSPECTION RESAMPLE AT THE NEXT SERVICE INTERVAL TO RE-EVALUATE CONDITION .

RECOMMENDED INTERVAL.

WATER - HOTPLATE Water

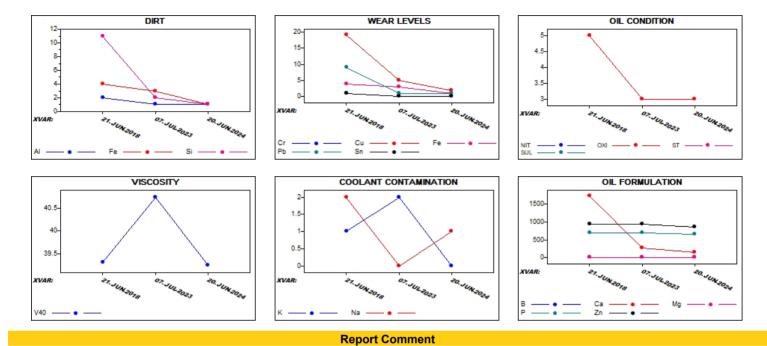
		SAMPLE INFORMA	TION
	1	1	1
Sampled Date	20-Jun-24	07-Jul-23	21-Jun-18
Sample Id	T010-54178-0303	T010-53191-0304	T010-48172-0804
Lab Date	26-Jun-24	10-Jul-23	21-Jun-18
Meter [Hr]	2180.0	2147.	1943
Comp Meter [Hr]		2147.0	1943
Meter On Fluid	237.0	204.0	1943
Fluid Brand	CAT	CAT	CAT
Fluid Weight	10W	10W	10W
Fluid Type	HYD	HYD	HYD
Fluid Change	N	N	Υ
Filter Change	Υ	Υ	Υ
Make Up Fluid []		4	
PM Level			2000
	1	1	

	For additional	sample history, go	to:	S.O.S WEB	
	C	ONDITION / C	ONTAMINAT	ION	
		20-Jun-24	07-Jul-23	21-Jun-18	
VISCO	OSITY (CENTISTOKES) A	STM D445			
V40	Viscosity at 40 C	39.23	40.74	39.3	
INFRA	ARED (UFM) ASTM E2412 Oxidation	3	3	5	

PREVIOUS SAMPLE OIL CONDITION SATISFACTORY, CONTINUE SAMPLING AT

		WEAR LE	VELS / ADDI	TIVES	
		20-Jun-24	07-Jul-23	21-Jun-18	
ELEM	IENTAL ANALYSIS (PPI	M) ASTM D5185 [OIL] / ASTM D6130	[COOLANT]	
Cu	Copper	2	5	19	
Fe	Iron	1	3	4	
Cr	Chromium	0	0	<1	
Al	Aluminum	1	1	2	
Pb	Lead	1	1	9	
Sn	Tin	0	0	1	
Si	Silicon	1	2	11	
Na	Sodium	1	0	2	
K	Potassium	0	2	<1	
Мо	Molybdenum	0	0	<1	
Ni	Nickel	0	0	<1	
Ag	Silver	0	0	<1	
Ti	Titanium	0	0	<1	
V	Vanadium	0	0	<1	
Mn	Manganese	0	0	<1	
Cd	Cadmium	0	0	<1	
Са	Calcium	160	265	1708	
Р	Phosphorus	655	690	701	
Zn	Zinc	854	935	932	
Mg	Magnesium	1	2	9	
Ва	Barium	0	0		
В	Boron	0	0	2	

		CLEANI	INESS	
		20-Jun-24	07-Jul-23	21-Jun-18
PARTIC	CLE COUNT - ISO 11	171:1999 reported per	ISO 4406	
ISO	ISO Code Rating	20/18/15	21/17/12	24/23/17
4μ	4μ	5738	11628	92076
6μ	6μ	1775	813	47491
14µ	14µ	169	32	1196
FERRO	OUS DEBRIS			
PQI	PQ Index	0	0	7
VISUAI	LINSPECTION			
DEP	DEP	A1	N	A1
DEP2	DEP2	DEB	N	DEB



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RADIATOR

EQUIP NUM: R2 SERIAL NUMBER: 8RZ00339

COOLANT CONDITION SATISFACTORY, CONTINUE SAMPLING AT THE RECOMMENDED INTERVAL.

T010-55181-2025

LABEL#: 258771311 SHOP JOB NUM: 2w94258 SAMPLE SHIP TIME (days): 4

WHELANS GROUP INVESTMENTS PTY LTD

WHELANS GROUP INVESTMENTS - BRUTHEN

QUARRY

RECEIVED DATE: 30-Jun-25

CAT CB224D



No Action Required

Interp By: Hon Yin Tham

Interpreted On: 04-Jul-25

THE

	SAMPLE INFORMATION								
	1	1	1	1					
Sampled Date	26-Jun-25	20-Jun-24	07-Jul-23	21-Jun-18					
Sample Id	T010-55181-2025	T010-54178-2036	T010-53191-2010	T010-48172-2022					
Lab Date	30-Jun-25	26-Jun-24	10-Jul-23	21-Jun-18					
Meter [Hr]	2223	2180.0	2147	1943					
Comp Meter [Hr]				1943					
Meter On Fluid		2180.0	2147	1943					
Fluid Brand	CAT	CAT	CAT	CAT					
Fluid Weight									
Fluid Type	ELC	ELC	ELC	FACTORY FILL					
Fluid Change	N	N	N	N					
Filter Change	N	NA	NA						
PM Level				2000					
	0	0	0						

					COOLA		SATISFACTORY,	CONTINUE	SAMPLING	AT T
Sampled Date	26-Jun-25	20-Jun-24	07-Jul-23	21-Jun-18	RECOM	MENDED INTERVAL.				
Sample Id	T010-55181-2025	T010-54178-2036	T010-53191-2010	T010-48172-2022		For addition	onal sample history, go	to:	S.O.S WEB	
Lab Date	30-Jun-25	26-Jun-24	10-Jul-23	21-Jun-18			ADDITIONAL CHA	RACTERIST	ics	
Meter [Hr]	2223	2180.0	2147	1943			26-Jun-25	20-Jun-24	07-Jul-23	21-Jun-1
Comp Meter [Hr]				1943	1011.0	UDOLALTOOD A DUNA		20-3011-24	07-301-23	21-3011-1
Meter On Fluid		2180.0	2147	1943	ION C	HROMATOGRAPHY (PPM) ASTM D4327			
Fluid Brand	CAT	CAT	CAT	CAT	CL	Chloride	1	2	4	34
Fluid Weight					SO4	Sulfate	4	3	8	3
Fluid Type	ELC	ELC	ELC	FACTORY FILL						
Fluid Change	N	N	N	N	ADDIT	TIONAL ANALYTES				
Filter Change	N	NA	NA		TH	Total Hardness	3	4	3	0
PM Level	0	0	0	2000						
					REFR	ACTIVE INDEX				
	CORR	OSION LEVELS/ CI	HEMISTRY		GL	Glycol (%)	51	52	50	52
		un-25 20-Jun-24		21-Jun-18	FP	Freeze Point (°C)	-38	-41	-37	-41
ELEMENTAL ANZ		5185 [OII] / ASTM D613			BP	Boil Point (°C)	107	108	107	108

рΗ

рΗ

CONDUCTIVITY (µS/cm)

CON Conductivity

ELEME	ELEMENTAL ANALYSIS (PPM) ASTM D5185 [OIL] / ASTM D6130 [COOLANT]											
Cu	Copper	0	0	0	<1							
Fe	Iron	0	0	0	<1							
Pb	Lead	0	0	0	<1							
Sn	Tin	1	1	0	5							
Al	Aluminum	1	0	0	2							
Zn	Zinc	0	0	0	<1							
Na	Sodium	3966	4041	3528	3587							
K	Potassium	7	10	8	51							
Мо	Molybdenum	558	585	515	147							
ION CH	HROMATOGRAPHY (PR	PM) ASTM D4327										
NO2	Nitrite	513	548	605	573							
NO3	Nitrate	13	33	23	38							
GLO	Glycolate	78	52	80	356							
ADDIT	IONAL ANALYTES											
MoO4	Molybdate	929	975	859	246							
	Borate	3	0	0	0							
BO3	borate											
BO3 SiO3		19	18	16	7							
BO3 SiO3	Silicate		18	16	7							

		PHYSICAL CHA	RACTERIST	ICS								
		26-Jun-25	20-Jun-24	07-Jul-23	21-Jun-18							
PHYSI	PHYSICALS											
Color	Color	red	red	red	red							
Арр	Appearance	clear	clear	clear	clear							
Odor	Odor	norm	norm	norm	norm							
Oil	Oil	none	none	none	none							
Foam	Foam	norm	norm	norm	norm							
PAmt	Precip Amount	none	none	trace	none							
PApp	Precip Appearanc	N/A	N/A	granular	N/A							
PCol	Precip Color	N/A	N/A	wht sol	N/A							
PProp	Precip Property	N/A	N/A	non-mag	N/A							

8.8

4241

8.8

5192

8.6

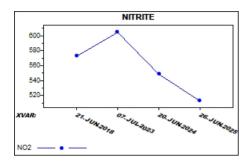
3394

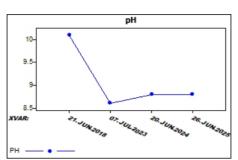
10.1

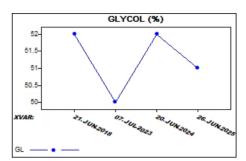
4216

PREVIOUS SAMPLE









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ENGINE

T010-55181-0514

LABEL#: 258845726 SHOP JOB NUM : 2w94258 SAMPLE SHIP TIME (days) : 4

WHELANS GROUP INVESTMENTS PTY LTD

WHELANS GROUP
INVESTMENTS - BRUTHEN

QUARRY

RECEIVED DATE: 30-Jun-25

EQUIP NUM: R2 CAT CB224D



Monitor Compartment

SERIAL NUMBER: 8RZ00339 COMP SERIAL NUM: 4ZW01553

Interp By: Barry Swindells

Interpreted On: 01-Jul-25

OIL VISCOSITY AND FUEL TEST INDICATE FUEL DILUTION, MONITOR THE COMPARTMENT LEVEL, CHECK THE VISCOSITY GRADE OF THE OIL, RESAMPLE AT HALF THE RECOMMENDED INTERVAL.

SAMPLE INFORMATION									
		-							
Sampled Date	26-Jun-25	20-Jun-24	07-Jul-23	10-Aug-22					
Sample Id	T010-55181-0514	T010-54178-0528	T010-53191-0241	T010-52227-0423					
Lab Date	30-Jun-25	26-Jun-24	10-Jul-23	15-Aug-22					
Meter [Hr]	2223	2180.0	2147	2103					
Meter On Fluid		33.0	2147	2103					
Fluid Brand	CAT	CAT	CAT	CAT					
Fluid Weight	15W-40	15W-40	15W-40	15W-40					
Fluid Type	DEO	DEO	DEO	DEO					
Fluid Change	Υ	Υ	Υ	N					
Filter Change	Υ	Υ	Υ	N					
Total Fluid Added	0	0	0	0					

	PREVIOUS SAMPLE												
OIL RECOM	CONDITION MENDED INTERVAL.	SATISFACTORY,	CONTINUE	SAMPLING	ΑТ	THE							
For additional sample history, go to: S.O.S WEB													
	CONDITION / CONTAMINATION												
	26-Jun-25 20-Jun-24 07-Jul-23 10-Aug-22												
VISC	OSITY (CENTISTO	(ES) ASTM D445											
V100	Viscosity at 100	C 11.53	12.32	12.60	12.9	97							
VISC	OSITY (CENTISTO	(ES) ASTM D445											
V40	Viscosity at 40 C	79.91	87.88	90.84	94.6	50							

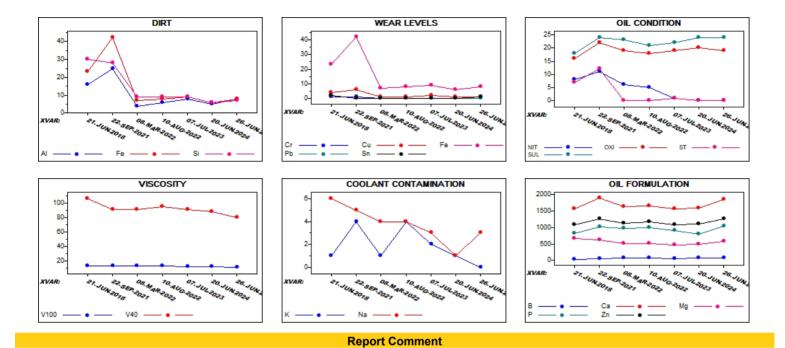
		WEAR LEV	/ELS / ADDI	TIVES		
		26-Jun-25	20-Jun-24	07-Jul-23	10-Aug-22	
ELEMI	ENTAL ANALYSIS (PPN	I) ASTM D5185 [OIL	/ ASTM D6130	[COOLANT]		
Cu	Copper	1	1	2	1	
Fe	Iron	8	6	9	8	
Cr	Chromium	0	0	0	0	
Al	Aluminum	8	5	8	6	
Pb	Lead	0	0	0	0	
Sn	Tin	1	0	0	0	
Si	Silicon	7	6	9	9	
Na	Sodium	3	1	3	4	
K	Potassium	0	1	2	4	
Мо	Molybdenum	45	38	39	43	
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	
Са	Calcium	1860	1588	1562	1664	
Р	Phosphorus	1045	796	916	986	
Zn	Zinc	1255	1111	1084	1168	
Mg	Magnesium	571	496	459	510	
Ва	Barium	0	0	0	0	
В	Boron	76	68	62	72	

VISCO	OSITY INDEX											
VI	Viscosity Index		135	135	135	135						
INFR/	ARED (UFM) ASTM E2	412										
ST	Soot		0	0	1	0						
OXI	Oxidation		19	20	19	18						
SUL	Sulfate By-Produc		24	24	22	21						
	Sulfur Products		24	24	22	21						
NIT	Nitration		0	0	1	5						
WATER - HOTPLATE												
W	Water		N	N	N	N						
FUEL	DILUTION (SCREEN)											
F	Fuel		Р	N	N	N						
FUEL	DILUTION (%) ASTM	D7593										
PFc	Percent Fuel		6.42	3.33	2.28	2.77						
			CLEAN	LINESS								
			26-Jun-25	20-Jun-24	07-Jul-23	10-Aug-22						
FERR	OUS DEBRIS											

PQI

PQ Index





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HYDRAULIC SYSTEM

EQUIP NUM: R2 CAT CB224D

SERIAL NUMBER: 8RZ00339

T010-55181-0403

LABEL#: 258841977 SHOP JOB NUM : 2w94258 SAMPLE SHIP TIME (days) : 4

WHELANS GROUP INVESTMENTS PTY LTD

WHELANS GROUP
INVESTMENTS - BRUTHEN

QUARRY

RECEIVED DATE: 30-Jun-25

Boron

Monitor Compartment

Interp By: Barry Swindells
Interpreted On: 01-Jul-25

ISO PARTICLE COUNT IS SLIGHTLY HIGH FOR UNKNOWN HOURS ON OIL, THIS MAY BE ACCEPTABLE FOR ORIGINAL FILL OIL. AS THE OIL HAS NOT BEEN CHANGED. WE WILL MONITOR ACTIVITY OVER THE NEXT FEW SAMPLES. ALL OTHER TEST RESULTS APPEAR ACCEPTABLE. RESAMPLE AT THE NEXT SERVICE INTERVAL.

SAMPLE INFORMATION									
		1							
Sampled Date	26-Jun-25	20-Jun-24	07-Jul-23	21-Jun-18					
Sample Id	T010-55181-0403	T010-54178-0303	T010-53191-0304	T010-48172-0804					
Lab Date	30-Jun-25	26-Jun-24	10-Jul-23	21-Jun-18					
Meter [Hr]	2223	2180.0	2147.	1943					
Comp Meter [Hr]			2147.0	1943					
Meter On Fluid		237.0	204.0	1943					
Fluid Brand	CAT	CAT	CAT	CAT					
Fluid Weight	10W	10W	10W	10W					
Fluid Type	HYD	HYD	HYD	HYD					
Fluid Change	N	N	N	Υ					
Filter Change	Υ	Υ	Υ	Υ					
Make Up Fluid []			4						
PM Level				2000					
	4	4	4						

		WEAR LE	VELS / ADDI	TIVES		
		26-Jun-25	20-Jun-24	07-Jul-23	21-Jun-18	
ELEN	MENTAL ANALYSIS (PPM	I) ASTM D5185 [OIL	.] / ASTM D6130	[COOLANT]		
Cu	Copper	4	2	5	19	
Fe	Iron	3	1	3	4	
Cr	Chromium	0	0	0	<1	
Al	Aluminum	2	1	1	2	
Pb	Lead	1	1	1	9	
Sn	Tin	0	0	0	1	
Si	Silicon	2	1	2	11	
Na	Sodium	0	1	0	2	
K	Potassium	0	0	2	<1	
Мо	Molybdenum	0	0	0	<1	
Ni	Nickel	0	0	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	
Са	Calcium	173	160	265	1708	
Р	Phosphorus	757	655	690	701	
Zn	Zinc	927	854	935	932	
Mg	Magnesium	1	1	2	9	
Ва	Barium	0	0	0		

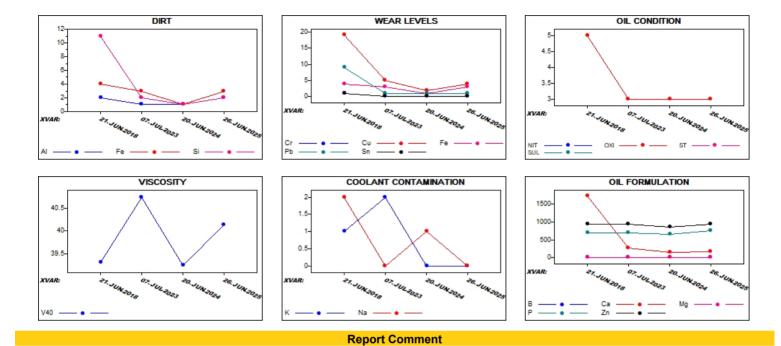
						LIXE	_ v i (<i>3</i> 03 c	, AIVII	ᆫᆫ						
ISO	PAR	TICLE	E 0	OUNT	AF	PPEAR	:S	SLIGH	HTLY	ELE	VATE	D.	CH	IECK	F	ILTER
MEDIU	М .	AND	SCR	EENS	FOF	R WI	EAR	MATE	ERIAL	AND	CC	NATAC	IINATIC	ON.	C	CHECK
& E	ENSU	RE	THIS	C	OMPAR	TMEN	Т	OPERA	ATING	СО	RREC	TLY.		CHEC	K	FOR
LEAKS		AS	THE	OIL	HAS	NOT	BEI	EN CH	HANGE	D.	WE	WILL	MON	IITOR	AC	TIVITY
OVER	TH	E 1	NEXT	FEV	V SA	AMPLE	S.	AF	TER	INSPE	CTION	N R	ESAMP	LE	ΑT	THE
NEXT :	SERVI	CE IN	TERVA	L TO E	RF-EVA	LUATE	CON	NDITION								

PREVIOUS SAMPLE

NEXT 3	EXT SERVICE INTERVAL TO RE-EVALUATE CONDITION.										
	For additional	S.O.S WEE	3								
	CONDITION / CONTAMINATION										
26-Jun-25 20-Jun-24 07-Jul-23 21-Jun-											
VISC	OSITY (CENTISTOKES) A	STM D445									
V40	Viscosity at 40 C	40.13	39.23	40.74	39.3						

INFR	ARED (UFM) ASTM E	2412			
OXI	Oxidation	3	3	3	5

WATE	R - HOTPLATE				
W	Water	N	N	N	N
		CLEAN	LINESS		
		26-Jun-25	20-Jun-24	07-Jul-23	21-Jun-18
PART	ICLE COUNT - ISO 1117	1:1999 reported per	r ISO 4406		
ISO	ISO Code Rating	20/18/14	20/18/15	21/17/12	24/23/17
4μ	4μ	8834	5738	11628	92076
- 6μ	6μ	2013	1775	813	47491
14µ	14µ	142	169	32	1196
FERR	OUS DEBRIS				
PQI	PQ Index	0	0	0	7
VISUA	AL INSPECTION				
DEP	DEP	A1	A1	N	A1
DEP2	DEP2	DEB	DEB	N	DEB



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

ENGINE

T010-55204-0507

SAMPLE SHIP TIME (days): 2

WHELANS GROUP INVESTMENTS PTY LTD

WHELANS GROUP INVESTMENTS - BRUTHEN

QUARRY

RECEIVED DATE: 23-Jul-25

EQUIP NUM: R2 CAT CB224D

No Action Required

SERIAL NUMBER: 8RZ00339

COMP SERIAL NUM: 4ZW01553

Interp By: Barry Swindells Interpreted On: 24-Jul-25

* Report of resample due to fuel dilution previously, OIL CONDITION SATISFACTORY, CONTINUE SAMPLING AT THE RECOMMENDED INTERVAL.

V40

Viscosity at 40 C

		SAMPLE INFORMA	TION	
	-		1	-
Sampled Date	21-Jul-25	26-Jun-25	20-Jun-24	07-Jul-23
Sample Id	T010-55204-0507	T010-55181-0514	T010-54178-0528	T010-53191-0241
Lab Date	23-Jul-25	30-Jun-25	26-Jun-24	10-Jul-23
Meter [Hr]	2232	2223	2180.0	2147
Comp Meter [Hr]	2232			
Meter On Fluid			33.0	2147
Fluid Brand		CAT	CAT	CAT
Fluid Weight		15W-40	15W-40	15W-40
Fluid Type		DEO	DEO	DEO
Fluid Change	N	Υ	Υ	Υ
Filter Change	N	Υ	Υ	Υ
Total Fluid Added	0	0	0	0

OIL VISCOSITY AND FUEL TE	ST INDICATE FUEL DILUT	ION, MONITOR II	HE.	
COMPARTMENT LEVEL, CHE	CK THE VISCOSITY GRAD	DE OF THE OIL,		
RESAMPLE AT HALF THE RE	COMMENDED INTERVAL.			
For add	tional sample history, go	to:	S.O.S WEB	
	CONDITION / C	ONTAMINATI	ON	
	21-Jul-25	26-Jun-25	20-Jun-24	07-Jul-23
VISCOSITY (CENTISTOK	ES) ASTM D445			
V100 Viscosity at 100 0	13.34	11.53	12.32	12.60
VISCOSITY (CENTISTOK	ES) ASTM D445			

79.91

87.88

96.19

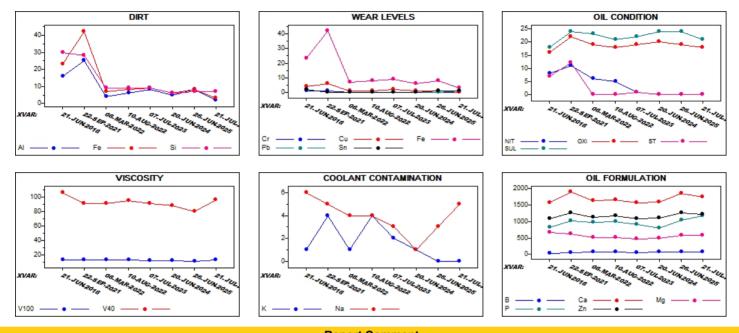
PREVIOUS SAMPLE

		WEAR LEV	VELS / ADDIT	IVES		
		21-Jul-25	26-Jun-25	20-Jun-24	07-Jul-23	
ELEM	ENTAL ANALYSIS (PPM	I) ASTM D5185 [OIL] / ASTM D6130 [COOLANTI		
Cu	Copper	0	1	1	2	
Fe	Iron	3	8	6	9	
Cr	Chromium	0	0	0	0	
Al	Aluminum	2	8	5	8	
Pb	Lead	1	0	0	0	
Sn	Tin	1	1	0	0	
Si	Silicon	7	7	6	9	
Na	Sodium	5	3	1	3	
K	Potassium	0	0	1	2	
Мо	Molybdenum	45	45	38	39	
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	
Са	Calcium	1752	1860	1588	1562	
Р	Phosphorus	1170	1045	796	916	
Zn	Zinc	1219	1255	1111	1084	
Mg	Magnesium	578	571	496	459	
Ва	Barium	0	0	0	0	
В	Boron	78	76	68	62	

visco	SITY INDEX					
VI	Viscosity Index		137	135	135	135
INFRA	RED (UFM) ASTM I	E2412				
ST	Soot		0	0	0	1
IXC	Oxidation		18	19	20	19
SUL	Sulfate By-Produc	;	21	24	24	22
	Sulfur Products		21	24	24	22
TIV	Nitration		0	0	0	1
WATE	R - HOTPLATE					
Ν	Water		N	N	N	N
EUEL I	DILUTION (SCREE!	N)				
=	Fuel	'	N	P	N	N
	i dei					
FUEL [DILUTION (%) ASTI	M D7593				
PFc	Percent Fuel		3.67	6.42	3.33	2.28
			CLEAN	ILINESS		
			21-Jul-25	26-Jun-25	20-Jun-24	07-Jul-23
FERRO	OUS DEBRIS					
PQI	PQ Index		0	1	0	0

COMP SERIAL NUM: 4ZW01553





Report Comment

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103 RUPERT ST

BAIRNSDALE, VIC

AUS 3875

PHONE: 5152 2844

FAX:

Email: workshop@whelansgroup.com.au

Interp By: Barry Swindells

EQUIPMENT

CUSTOMER EQUIP NUM: R2

SERIAL NUMBER: 8RZ00339

MODEL: CB224D

MANUFACTURER: CAT

COMPANY NAME: WHELANS GROUP INVESTMENTS PTY LTD

JOB SITE:

AREA:

REGION:

SAMPLE INFORMATION

COMPARTMENT NAME: HYDRAULIC SYSTEM

COMP SERIAL NUM:

COMPARTMENT MODEL :

LABEL#:

SHOP JOB NUM: 2w73447

SAMPLE TYPE: OIL

SAMPLE SHIP TIME (days): 0

SAMPLE LOCATION: Nambrok

Monitor

Compartment

ISO PARTICLE COUNT IS HIGH. COPPER LEVEL IS SLIGHTLY ELEVATED, THIS MAY BE ACCEPTABLE FOR ORIGINAL FILL OIL. SHOULD SETTLE

DOWN AFTER TWO OR THREE OIL CHANGES. 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#

T010-48172-0804

		WEAR/O	CONTAMINATION -	ADDITIVES/F	ORMULATION																					
SAMPLE	SAMPLE ID	METER	METER ON	FLUID	FILTER	Cu	Fe	Cr	Al	Pb	Sn	Si	Na	K	Мо	Ni	Ag	Ti	٧	Mn	Cd	Ca	Р	Zn	Mg	В
DATE		(HR)	FLUID	CHANGE	CHANGE																					
21-Jun-18	T010-48172-0804	1943	1943	Υ	Υ	19	4	<1	2	9	1	11	2	<1	<1	<1	<1	<1	<1	<1	<1	1708	701	932	9	2

			OIL FORMULATION	I - OIL CONDITIO	ON - OIL CO	NTAMINATION			
SAMPLE	SAMPLE ID	FLUID BRAND	FLUID TYPE	FLUID	FLUID	FILTER	V40	OXI	W
DATE				WEIGHT	CHANGE	CHANGE			
21-Jun-18	T010-48172-0804	CAT	HYD	10W	Υ	Υ	39.3	5	N

		OIL	CLEANLINESS							
SAMPLE	SAMPLE ID	FLUID	FILTER	ISO	PQI	4μ	6μ	14µ	DEP	DEP2
DATE		CHANGE	CHANGE							
21-Jun-18	T010-48172-0804	Υ	Υ	24/23/17	7	92076	47491	1196	A1	DEB

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Interp By: Barry Swindells

EQUIPMENT

CUSTOMER EQUIP NUM: R2

SERIAL NUMBER: 8RZ00339

MODEL: CB224D

MANUFACTURER: CAT

COMPANY NAME: WHELANS GROUP INVESTMENTS PTY LTD

JOB SITE:

AREA:

REGION:

SAMPLE INFORMATION

COMPARTMENT NAME: ENGINE

COMP SERIAL NUM: 4ZW01553

COMPARTMENT MODEL :

LABEL#:

SHOP JOB NUM: 2w73447

SAMPLE TYPE: OIL

SAMPLE SHIP TIME (days): 0

SAMPLE LOCATION: Nambrok

Monitor

Compartment

SILICON IS SLIGHTLY HIGH. LEVELS MAY BE ACCEPTABLE DUE TO RECENT REPAIRS. SHOULD SETTLE DOWN AFTER TWO OR THREE OIL CHANGES. CHECK AIR CLEANER AND AIR INLET SYSTEM FOR FAULTS. SUGGEST CUT OPEN FILTER(S) AND INSPECT FOR DEBRIS. CHECK FOR LEAKS. CHECK & ENSURE THIS COMPARTMENT OPERATING CORRECTLY. AS THE OIL HAS BEEN CHANGED. WE WILL MONITOR

LAB#

T010-48172-0821

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

		WEAR/	CONTAMINATION	- Additives/F	ORMULATION																					
SAMPLE DATE	SAMPLE ID	METER (HR)	METER ON FLUID	FLUID CHANGE	FILTER CHANGE	Cu	Fe	Cr	Al	Pb	Sn	Si	Na	K	Мо	Ni	Ag	Ti	٧	Mn	Cd	Са	Р	Zn	Mg	В
21-Jun-18	T010-48172-0821	1943	1943	Y	Y	4	23	1	16	2	2	30	6	1	35	<1	<1	<1	<1	<1	<1	1569	822	1073	656	39

			OIL FORMULATION	- OIL CONDITIO	ON - OIL CO	NOITANIMATION									
SAMPLE	SAMPLE ID	FLUID BRAND	FLUID TYPE	FLUID	FLUID	FILTER	V100	V40	VI	ST	OXI	SUL	NIT	W	F
DATE				WEIGHT	CHANGE	CHANGE									
21-Jun-18	T010-48172-0821	CAT	DEO	15W-40	Y	Υ	13.4	105.4	125	7	16	18	8	N	N

		OIL	CLEANLINESS	
SAMPLE	SAMPLE ID	FLUID	FILTER	PQI
DATE		CHANGE	CHANGE	
21-Jun-18	T010-48172-0821	Υ	Υ	3





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FAX:

Email: workshop@whelansgroup.com.au

Interp By:

Barry Swindells

EQUIPMENT

CUSTOMER EQUIP NUM: R2

SERIAL NUMBER: 8RZ00339

MODEL: CB224D

MANUFACTURER: CAT

COMPANY NAME: WHELANS GROUP INVESTMENTS PTY LTD

JOB SITE: WHELANS GROUP INVESTMENTS - BRUTHEN QUAF

AREA:

REGION:

SAMPLE INFORMATION

COMPARTMENT NAME: RADIATOR

COMP SERIAL NUM:

COMPARTMENT MODEL:

LABEL#:

SHOP JOB NUM: 2w73447

SAMPLE TYPE: COOLANT

SAMPLE SHIP TIME (days): 0

SAMPLE LOCATION : Nambrok

No Action Required

COOLANT CONDITION SATISFACTORY, CONTINUE SAMPLING AT THE RECOMMENDED INTERVAL.

LAB#

T010-48172-2022

	CORROSION ELEMENTS - COOLANT FORMULATION																	
SAMPLE DATE	SAMPLE ID	FLUID BRAND	TYPE	Cu	Fe	Pb	Sn	Al	Zn	NO2	NO3	GLO	Na	К	Мо	MoO4	воз	SiO3
21-Jun-18	T010-48172-2022	CAT		<1	<1	<1	5	2	<1	573	38	356	3587	51	147	246	0	7

				FREEZ	E/BOIL PROTECTION - CO	ONTAMINATION									
SAMPLE DATE	SAMPLE ID	METER (HR)	METER ON FLUID	FLUID BRAND	TYPE	FLUID CHANGE	GL	FP	BP	pН	CON	CL	SO4	PO4	TH
21-Jun-18	T010-48172-2022	1943	1943	CAT		N	52	-41	108	10.1	4216	34	3	0	0

					COOLANT PHYSICALS	3								
SAMPLE DATE	SAMPLE ID	METER (HR)	METER ON FLUID	FLUID BRAND	TYPE	Color	Арр	Odor	Oil	Foam	PAmt	РАрр	PCol	PProp
21-Jun-18	T010-48172-2022	1943	1943	CAT		red	clear	norm	none	norm	none	N/A	N/A	N/A

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PHONE: 5152 2844

FAX:

Email: workshop@whelansgroup.com.au

Interp By: Tom Cokalis

EQUIPMENT

CUSTOMER EQUIP NUM: IR02

SERIAL NUMBER: IR02

MODEL: 6310_DEERE

MANUFACTURER: DEERE

COMPANY NAME: WHELANS GROUP INVESTMENTS PTY LTD

JOB SITE:

AREA:

REGION:

SAMPLE INFORMATION

COMPARTMENT NAME: ENGINE

COMP SERIAL NUM:

COMPARTMENT MODEL :

LABEL#:

SHOP JOB NUM:

SAMPLE TYPE: OIL

SAMPLE SHIP TIME (days): 6

SAMPLE LOCATION: WSHOP

No Action Required

OIL CONDITION SATISFACTORY, CONTINUE SAMPLING AT THE RECOMMENDED INTERVAL.

LAB#

T010-48246-0326

	WEAR/CONTAMINATION - ADDITIVES/FORMULATION																									
SAMPLE	SAMPLE ID	METER	METER ON	FLUID	FILTER	Cu	Fe	Cr	Al	Pb	Sn	Si	Na	K	Мо	Ni	Ag	Ti	٧	Mn	Cd	Ca	Р	Zn	Mg	В
DATE		(HR)	FLUID	CHANGE	CHANGE																					
28-Aug-18	T010-48246-0326	4200	140	Υ	Y	<1	11	1	2	3	2	3	8	1	2	<1	<1	<1	<1	<1	<1	3232	883	1081	25	9

			OIL FORMULATION	- OIL CONDITIO	ON - OIL CO	NTAMINATION									
SAMPLE	SAMPLE ID	FLUID BRAND	FLUID TYPE	FLUID	FLUID	FILTER	V100	V40	VI	ST	OXI	SUL	NIT	W	F
DATE				WEIGHT	CHANGE	CHANGE									
28-Aug-18	T010-48246-0326	FUCHS	CARGO	15W-40	Υ	Υ	13.9	102.7	137	5	9	16	7	N	N

		OIL	CLEANLINESS	
SAMPLE	SAMPLE ID	FLUID	FILTER	PQI
DATE		CHANGE	CHANGE	
28-Aug-18	T010-48246-0326	Υ	Υ	0