

CONSTRUCTION EQUIPMENT RECYCLE AMERICA VOLVO L60H 622532 - COOLANT



Sample No: VCP364336

Oil Type: VOLVO COOLANT VCS (YELLOW)

Job No: RECYCLE AMERICA

SAMPLE II	NFORMATION			
Sample Number	-	VCP364336	 	
Sample Date		30 Aug 2022	 	
Machine Hours		5793	 	
Sample Status		NORMAL	 	
COOLANT	CONDITION			
рН	Scale 0-14	7.18	 	
Reserve Alkalinity	Scale 0-20		 	
Nitrites	ppm	■ 0	 	
Percentage Glycol	%	45.4	 	
Freezing Point	°C	-24	 	
CONTAMIN	NATION			
Coolant Appearance		normal	 	
Coolant Color		Yllow	 	



WASTE MANAGEMENT TAMPA TRANSFER

3518 4TH AVE
TAMPA, FL
US 33605
Contact: JOHN POLLOCK
jpollock2@wm.com
T: (813)247-7397
F: (813)247-4847

Diagnosis

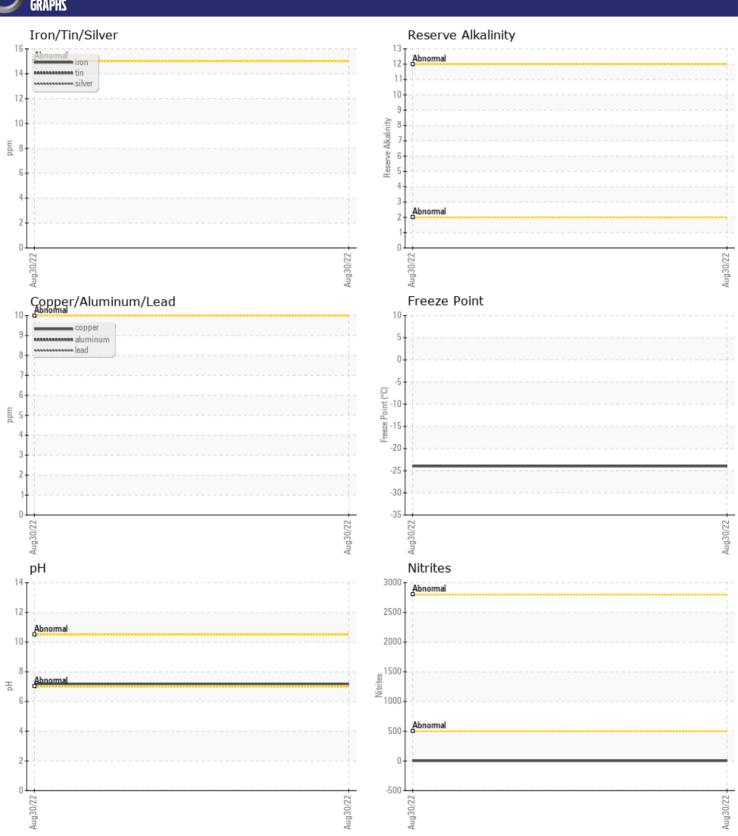
No corrective action is recommended at this time. The fluid is suitable for further service. There is no indication of any contamination in the coolant. Carboxylate test failed. The glycol level is acceptable. The pH level of this fluid is within the acceptable limits.

Depot:WASTAMUnique No:10144144Signed:Doug BogartReport Date:29 Sep 2022











CONSTRUCTION EQUIPMENT VOLVO L60H 622532 - DIESEL ENGINE



Sample No: VCP443028

Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

Job No:

Boron

VOLVO	VEODMATION.				
_	NFORMATION				
Sample Number		VCP443028	VCP441641	VCP432169	VCP433332
Sample Date		10 Jun 2024	14 Feb 2024	14 Dec 2023	11 Oct 2023
Machine Hours		11558	10530	9859	9385
Oil Hours		0	500	0	2000
Oil Changed		Changed	Changed	Changed	Changed
Sample Status		NORMAL	NORMAL	NORMAL	NORMAL
VOLVO					
OIT CONDI.	TION				
Visc @ 100°C	cSt	12.8	13.4	12.9	■13.3
Base Number (BN)	mg KOH/g	■9.8	9.8	■11.1	7.1
Oxidation (PA)	%	76	78	76	86
VOLVO					
CONTAMIN	NATION				
Water	%	NEG	NEG	NEG	NEG
Soot %	%	■ 0.3	□ 0.4	■ 0.1	■ 0.9
Nitration (PA)	%	58	65	39	88
Sulfation (PA)	%	60	58	60	63
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	■ 9	■ 8	■ 8	1 6
Sodium	ppm	■ 0	- <1		4
Potassium	ppm	1	0	2	<u> </u>
VOLVO					
WEAR ME'	TALS				
Iron	ppm	6	6	1	2 4
Copper	ppm	■<1	0	- <1	2
Lead	ppm	0	0		< 1
Tin	ppm		- <1	<u> </u>	- <1
Aluminum	ppm	3	6	1	9
Chromium	ppm	■ <1	- <1	□0	2
Molybdenum	ppm	56	□40	□35	■48
Nickel	ppm	■<1	0	< 1	- <1
Titanium	ppm	<1	0	<1	<1
Silver	ppm	■ 0	0	□0	0
Manganese	ppm	0	- <1	□ 0	1
Vanadium	ppm	0	0	<1	<1
VOLVO					
ADDITIVE!	<u> </u>				
Calcium	ppm	1533	□1585	□ 1494	■1742
Magnesium	ppm	505	499	440	489
Zinc	ppm	1067	1080	□967	1 105
Phosphorus	ppm	■834	950	■846	901
Barium	ppm	■0	□0	□0	□0
	1 F				



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3518 4TH AVE TAMPA, FL US 33605 Contact: JOHN POLLOCK jpollock2@wm.com T: (813)247-7397 F: (813)247-4847

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

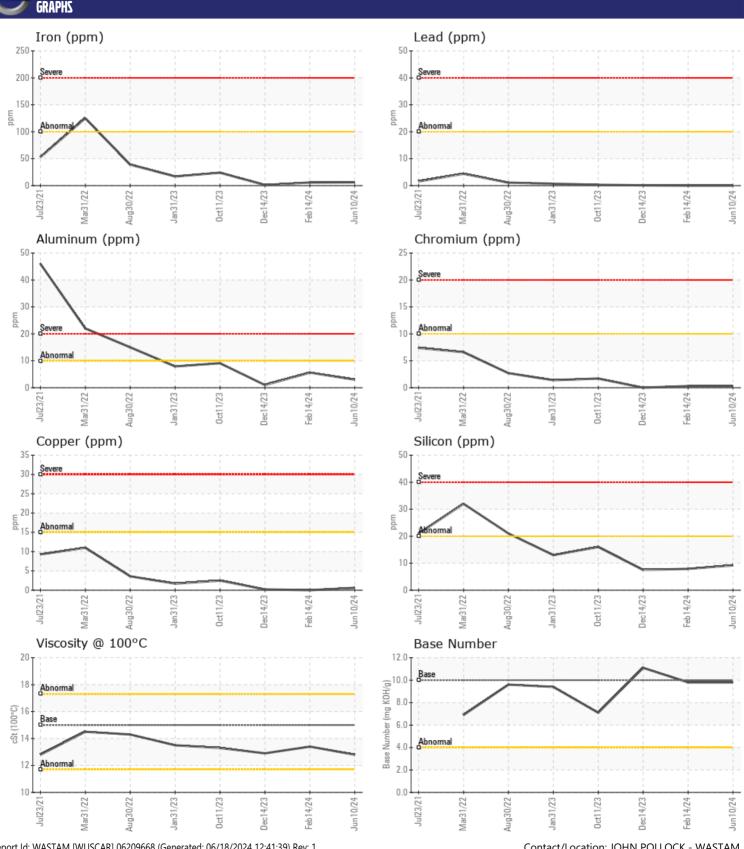
Depot:WASTAMUnique No:11077129Signed:Don BaldridgeReport Date:17 Jun 2024

ppm











CONSTRUCTION EQUIPMENT527681 VOLVO L60H 622532 - TRANSMISSION (AUTO)



Sample No: VCP437944
Oil Type: VOLVO AT 102

Job No: 527681

SAMPLE	INFORMATION				
Sample Number	-	VCP437944	VCP452097	VCP432168	VCP433331
Sample Date		05 Apr 2024	14 Feb 2024	14 Dec 2023	11 Oct 2023
Machine Hours		11071	10530	9859	9385
Oil Hours		1000	2000	0	9385
Oil Changed		Not Changd	Not Changd	Not Changd	Not Changd
Sample Status		ABNORMAL	ABNORMAL	ABNORMAL	ABNORMAL
OIL CON	DITION				
Visc @ 40°C	cSt	30.4	27.1	27.1	27.3
VISC @ 40 C	CSt	50. 4			21.5
VOLVO					
CONTAN	IINATION				
Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	10	1 0	■10	9
Sodium	ppm	11	1 2	4	1 1
Potassium	ppm	■ 4	1	■ 0	3
VOLVO					
WEAR M	IETALS				
Iron	ppm	<u> </u>	<u>^</u> 236	<u> </u>	△ 199
Copper	ppm	23	2 1	1 3	■18
Lead	ppm	1	0	0	0
Tin	ppm	■ <1	0	□ 0	0
Aluminum	ppm	1	1	1	1
Chromium	ppm	1	- <1	- <1	- <1
Molybdenum	ppm	1	0	0	0
Nickel	ppm	1	- <1	□ 0	- <1
Titanium	ppm	<1	0	0	0
Silver	ppm	■0	0	□0	0
Manganese	ppm	10	□ 9	1 0	9
Vanadium	ppm	<1	0	0	0
ADDITIV	ES				
Calcium	ppm	77	67	6 3	7 9
Magnesium	ppm	■3	0	■0	0
Zinc	ppm	47	2 6	1 7	■38
Phosphorus	ppm	195	1 95	■180	145
Barium	ppm	0	0	0	0
Boron	ppm	63	5 5	5 5	5 6



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Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. The iron level is abnormal. All other component wear rates are normal. There is no indication of any contamination in the fluid. The condition of the fluid is acceptable for the time in service.

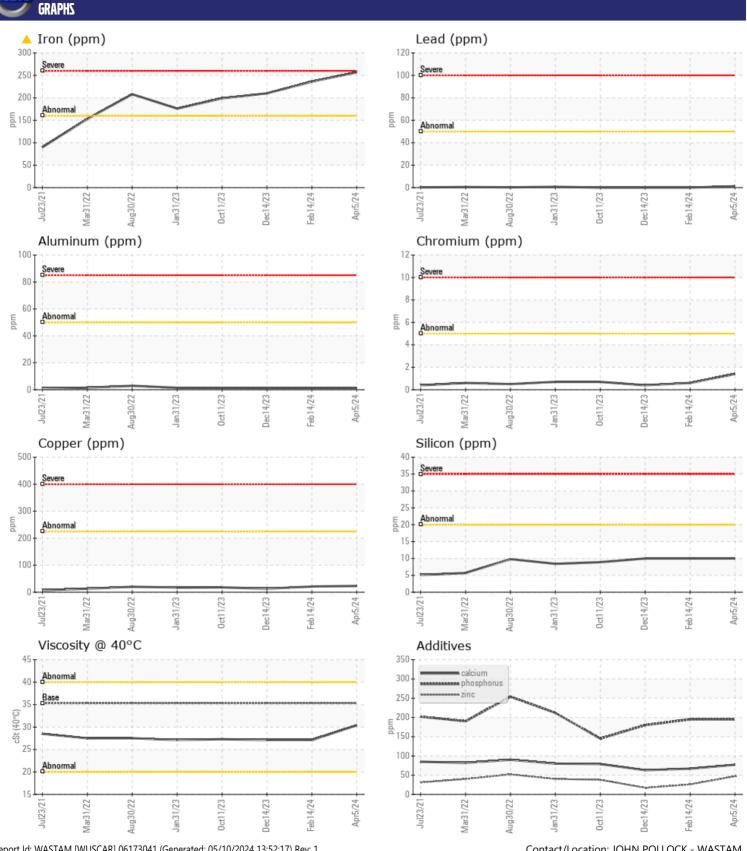
Depot:WASTAMUnique No:11019094Signed:Sean FeltonReport Date:10 May 2024

Contact/Location: JOHN POLLOCK - WASTAM











CONSTRUCTION EQUIPMENT VOLVO L60H 622532 - HYDRAULIC SYSTEM



Sample No: VCP445588

Oil Type: VOLVO SUPER HYDRAULIC OIL 46

Job No:

VOLVO					
SAMPLE	INFORMATION				
Sample Number	-	VCP445588	VCP452263	VCP433333	VCP395743
Sample Date		10 Jun 2024	14 Feb 2024	11 Oct 2023	31 Jan 2023
Machine Hours		11558	10530	9385	7204
Oil Hours		0	2000	9385	7204
Oil Changed		Not Changd	Not Changd	Not Changd	Not Changd
Sample Status		ABNORMAL	NORMAL	NORMAL	ABNORMAL
OIL CON	NITION				
		= 44.0	— 40.0	- 40.7	T-41.0
Visc @ 40°C	cSt	41.0	40.8	40.7	41.0
Acid Number (AN	mg KOH/g	■ 0.49	■ 0.41	□ 0.41	□ 0.32
VOLVO					
CONTAM	IINATION				
Water	%	NEG	NEG	NEG	NEG
Particles >4µm		15035	2550	2405	25549
Particles >6µm		4049	□ 560	652	A 8810
Particles > 14µm		△ 355	■30	5 6	△ 737
ISO 4406:1999 (c))	21/19/16	19/16/12	18/17/13	22/20/17
Silicon	ppm	5	5	4	4
Sodium	ppm	6	■8	6	4
Potassium	ppm	2	0	- <1	0
WEAR M	IETALS				
Iron	ppm	10	□ 9	□9	□ 8
Copper	ppm	2	3	3	3
Lead	ppm	■<1	2	- <1	1
Tin	ppm	■ 0	- <1	■0	- <1
Aluminum	ppm	■<1	0	- < 1	0
Chromium	ppm	2	_2	2	- <1
Molybdenum	ppm	■<1	< 1		< 1
Nickel	ppm	0	0	■0	0
Titanium	ppm	0	<1	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	- <1	<u> </u>	0
Vanadium	ppm	<1	<1	0	0
VOLVO					
ADDITIV	ES				
Calcium	ppm	224	160	<u></u> 54	□ 66
Magnesium	ppm	3	0	0	3
Zinc	ppm	■ 517	□381	409	■397
Phosphorus	ppm	■385	349	313	319
Barium	ppm	■0	0	□0	0
	1.1	_	_	_	_



WASTE MANAGEMENT TAMPA TRANSFER

3518 4TH AVE TAMPA, FL US 33605 Contact: JOHN POLLOCK jpollock2@wm.com T: (813)247-7397 F: (813)247-4847

Diagnosis

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate amount of particulates (2 to 100 microns in size) present in the oil. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Depot:WASTAMUnique No:11082870Signed:Wes DavisReport Date:17 Jun 2024

ppm

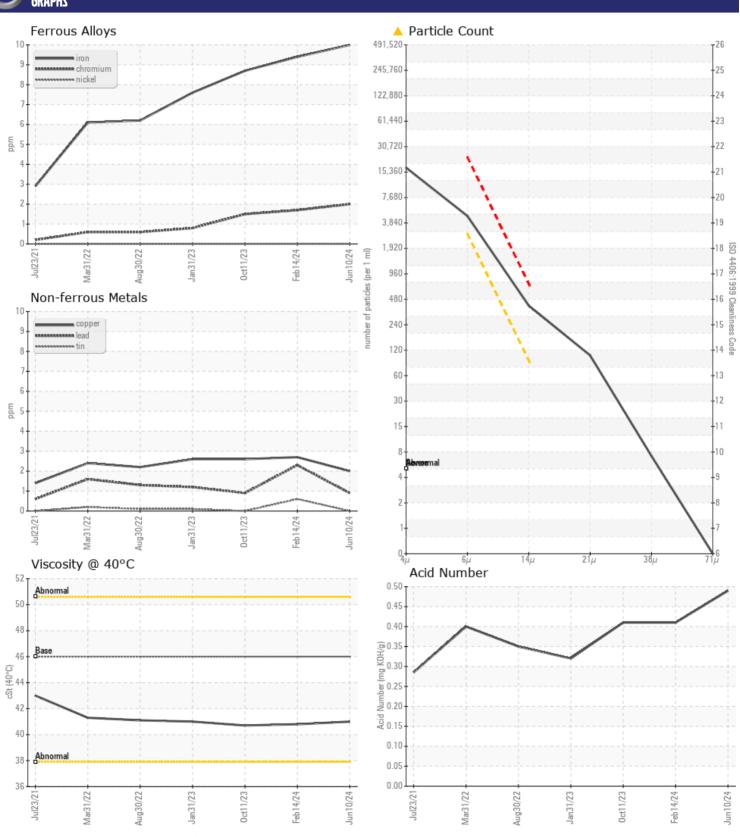
Boron







GRAPHS



Report Id: WASTAM [WUSCAR] 06210006 (Generated: 06/17/2024 10:30:28) Rev: 1

Contact/Location: JOHN POLLOCK - WASTAM



1257

119

0

1287

0

149

Sample No: VCP446349
Oil Type: VOLVO WB 102

Job No: 527681 WASTE MGMT

CVMDIE	INFORMATION				
	INI UNITATION		1/05//05/0	140040000	1/400000000
Sample Number		VCP446349	VCP442540	VCP433330	VCP395971
Sample Date		05 Apr 2024	14 Feb 2024	11 Oct 2023	31 Jan 2023
Machine Hours		11071	10530	9385	7204
Oil Hours		2000	2000	4000	1000
Oil Changed		Changed	Changed	Not Changd	Not Changd
Sample Status		NORMAL	NORMAL	NORMAL	NORMAL
OIL CON	DITION				
Visc @ 40°C	cSt	40.8	40.3	■39.8	40.2
VOLVO	UNIA TION				
LUNIAM	IINATION				
Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	13	1 5	1 5	1 5
Sodium	ppm	0	1 1	1 1	1 2
Potassium	ppm	■0	0	1	< 1
VOLVO					
WEAR M	IF I ALZ				
Iron	ppm	17	228	187	204
Copper	ppm	0	2	2	3
Lead	ppm	0	0	0	< 1
Tin	ppm	■<1	0	■0	- <1
Aluminum	ppm	1	< 1	1	< 1
Chromium	ppm	-<1	7	6	7
Molybdenum	ppm	43	3	2	5
Nickel	ppm	■0	- <1	1	1
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	1	1 2	■10	1 1
Vanadium	ppm	0	0	0	0
	le le				
ADDITIV	ES				
Calcium	ppm	3928	4005	■3757	4112
Magnesium	ppm	■41	0	1 9	17
Zinc		■1583	■1652	□ 1621	□ 17 □ 1656
	ppm	<u> </u>	1032	1021	1030

1402

133

0



WASTE MANAGEMENT TAMPA TRANSFER

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Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot:WASTAMUnique No:11018956Signed:Don BaldridgeReport Date:10 May 2024

1311

|| < 1

154

Phosphorus

Barium

Boron

ppm

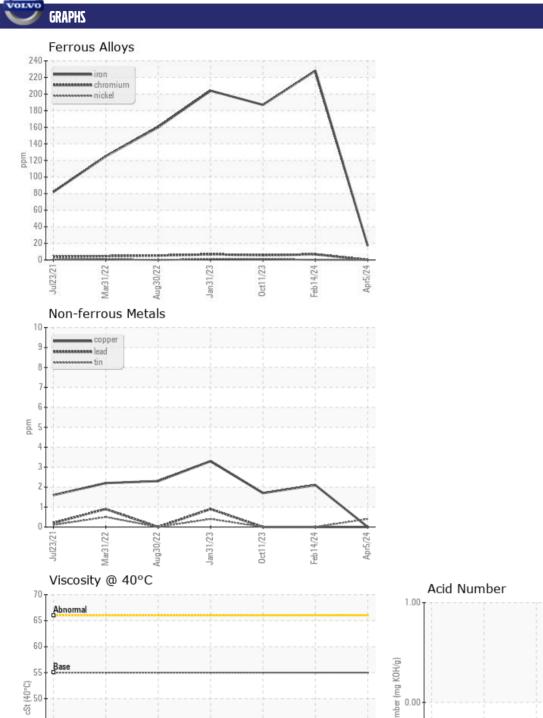
ppm

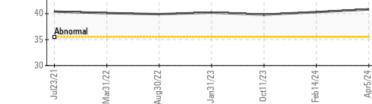
ppm

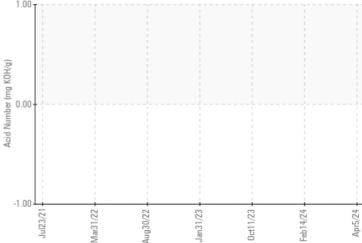












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CONSTRUCTION EQUIPMENT 527681 VOLVO L60H 622532 - REAR AXLE



Sample No: VCP440027
Oil Type: VOLVO WB 102

Job No: 527681

SAMPLE	INFORMATION				
Sample Number	<u> </u>	VCP440027	VCP444308	VCP429201	VCP395973
Sample Date		05 Apr 2024	14 Feb 2024	11 Oct 2023	31 Jan 2023
Machine Hours		11071	10530	9385	7204
Oil Hours		2000	2000	4000	1000
Oil Changed		Changed	Changed	Not Changd	Not Changd
Sample Status		MARGINAL	ABNORMAL	NORMAL	NORMAL
VOLVO	DITION				
OIL CON	DITION				
Visc @ 40°C	cSt	42.3	41.5	■39.6	40.7
VOLVO					
CONTAN	MINATION				
_					
Water	%	▲ 0.391	NEG	NEG	NEG
Silicon	ppm	1 3	1 5	1 4	1 4
Sodium	ppm	0	1 0	9	1 1
Potassium	ppm	0	0	□ <1	- <1
VOLVO					
WEAR N	METALS				
Iron	ppm	4 3	<u></u> 564	427	■186
Copper	ppm	-<1	1 6	1 3	2
Lead	ppm	0	0	0	1
Tin	ppm	■<1	2	- <1	 <1
Aluminum	ppm	■<1	1	1	< 1
Chromium	ppm	-<1	9	7	6
Molybdenum	ppm	50	2 1	1 4	4
Nickel	ppm	■ 0	3	■3	1
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	2	2 0	1 6	1 1
Vanadium	ppm	0	0	<1	0
ADDITIV	/ES				
Calcium		□3928	4013	□ 3653	■ 3816
Magnesium	ppm	44	0	■ 3033 ■ 8	■16
Zinc	ppm	1592	1628	□ 1582	□ 15 □ 1574
Phosphorus	ppm	1292	1415	1268	1180
Barium	ppm		1415		1100
	ppm	<1	_	0	_
Boron	ppm	150	1 32	111	1 33



WASTE MANAGEMENT TAMPA TRANSFER

3518 4TH AVE TAMPA, FL US 33605 Contact: JOHN POLLOCK jpollock2@wm.com T: (813)247-7397 F: (813)247-4847

Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.All component wear rates are normal. There is a light concentration of water present in the oil. The condition of the oil is acceptable for the time in service.

Depot:WASTAMUnique No:11018974Signed:Don BaldridgeReport Date:10 May 2024







GRAPHS

