



CONSTRUCTION EQUIPMENT

VOLVO A40G 342374 - DIESEL ENGINE



Sample No: VCP442548
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP442548	VCP396997	VCP441993	VCP441996
Sample Date	15 Apr 2024	11 Mar 2024	05 Feb 2024	19 Dec 2023
Machine Hours	11573	11321	11098	10915
Oil Hours	252	223	183	58
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.7	12.6	12.7	12.9
Base Number (BN)	mg KOH/g	10.2	9.4	9.3	8.8
Oxidation (PA)	%	77	74	70	67

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.



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.2	0.2	0.1
Nitration (PA)	%	53	54	52	51
Sulfation (PA)	%	59	58	57	55
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	6	5	6
Sodium	ppm	13	9	7	7
Potassium	ppm	8	6	8	7



WEAR METALS

Iron	ppm	6	7	5	4
Copper	ppm	<1	<1	1	<1
Lead	ppm	0	0	0	0
Tin	ppm	2	0	0	0
Aluminum	ppm	3	2	2	2
Chromium	ppm	<1	0	0	0
Molybdenum	ppm	44	57	64	73
Nickel	ppm	3	<1	<1	2
Titanium	ppm	<1	0	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	0	0	0
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	1764	1746	1497	1401
Magnesium	ppm	476	566	521	534
Zinc	ppm	865	957	853	826
Phosphorus	ppm	770	839	795	757
Barium	ppm	0	0	12	12
Boron	ppm	65	69	85	98

Depot: SCHGRE
Unique No: 11008801
Signed: Wes Davis
Report Date: 04 May 2024

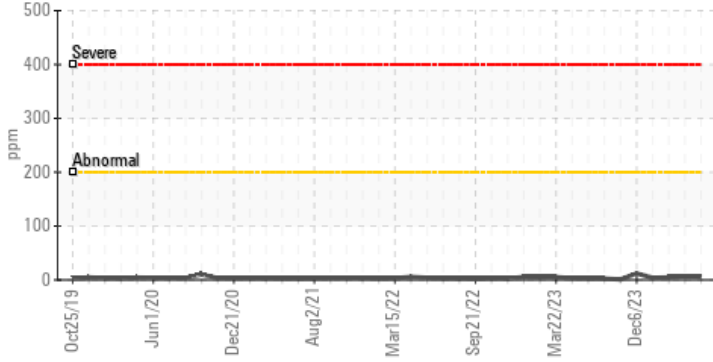


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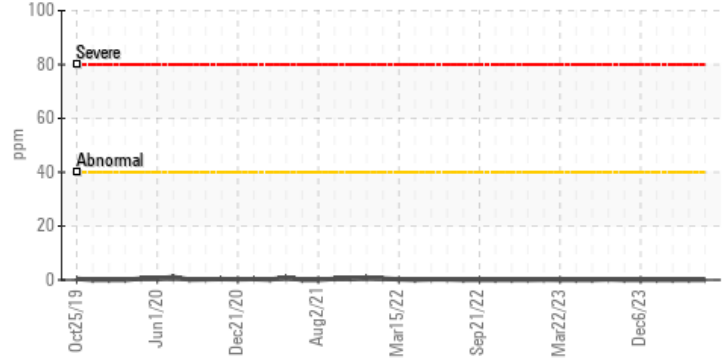


GRAPHS

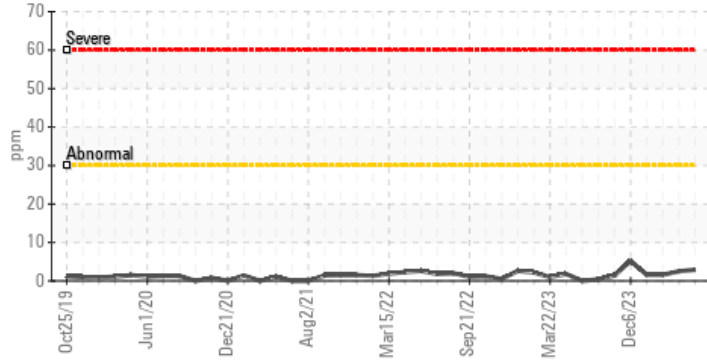
Iron (ppm)



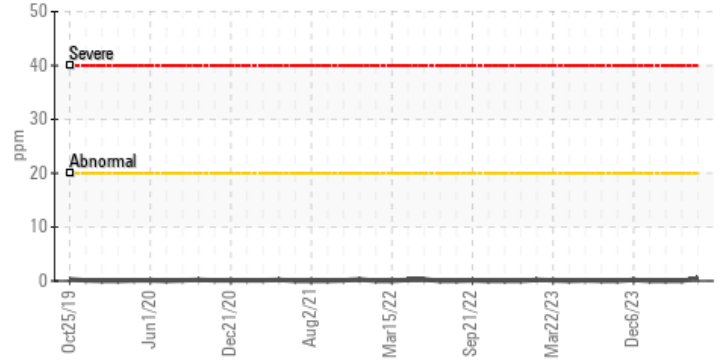
Lead (ppm)



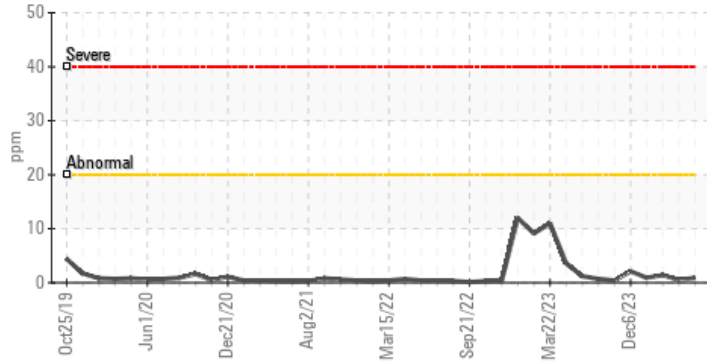
Aluminum (ppm)



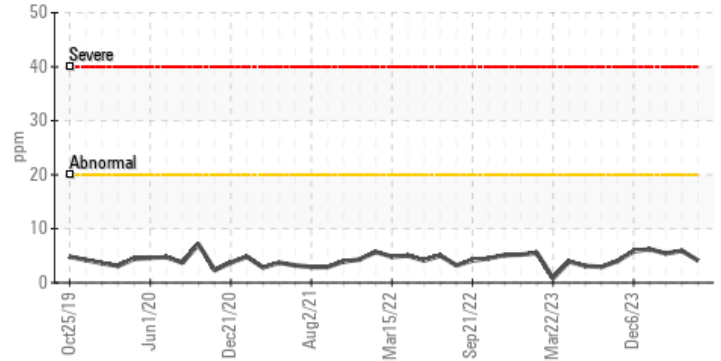
Chromium (ppm)



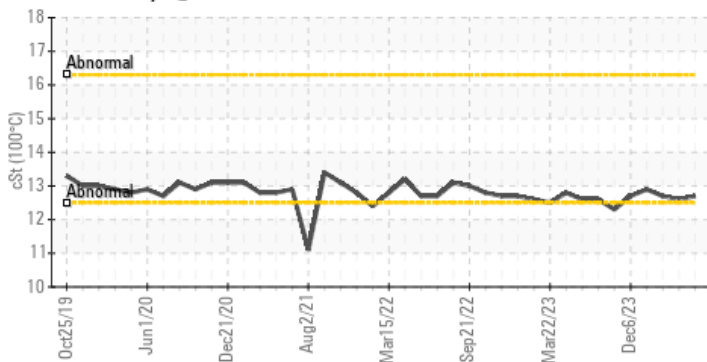
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

