



CONSTRUCTION EQUIPMENT

VOLVO A40G 342373 - DIESEL ENGINE



Sample No: VCP445785
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP445785	VCP399420	VCP436351	VCP445743
Sample Date	15 Apr 2024	12 Mar 2024	08 Feb 2024	29 Nov 2023
Machine Hours	12958	12715	12572	12310
Oil Hours	243	143	12572	207
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.6	13.1	12.5	12.9
Base Number (BN)	mg KOH/g	9.8	8.4	7.5	7.0
Oxidation (PA)	%	76	63	58	59

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	0.2
Nitration (PA)	%	52	58	70	68
Sulfation (PA)	%	59	52	49	49
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	4	8	4
Sodium	ppm	8	7	6	9
Potassium	ppm	4	5	7	7



WEAR METALS

Iron	ppm	4	3	3	3
Copper	ppm	<1	2	<1	0
Lead	ppm	0	<1	0	0
Tin	ppm	2	<1	0	0
Aluminum	ppm	2	5	3	7
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	46	94	121	131
Nickel	ppm	2	2	<1	0
Titanium	ppm	<1	<1	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	0	0
Vanadium	ppm	<1	<1	0	0



ADDITIVES

Calcium	ppm	1731	1363	1220	1289
Magnesium	ppm	483	591	634	686
Zinc	ppm	865	848	852	897
Phosphorus	ppm	763	725	747	726
Barium	ppm	0	0	12	0
Boron	ppm	64	106	128	142

Depot: SCHGRE
Unique No: 11008802
Signed: Wes Davis
Report Date: 04 May 2024

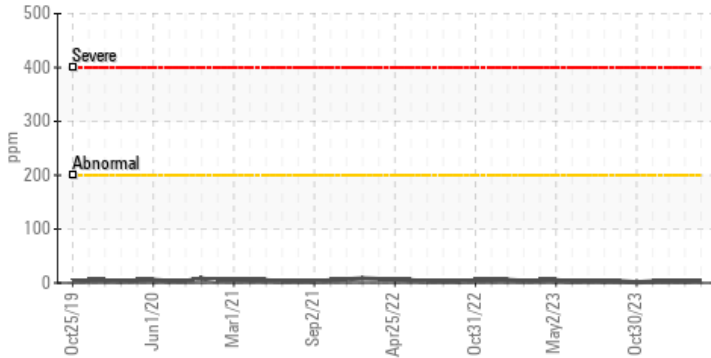


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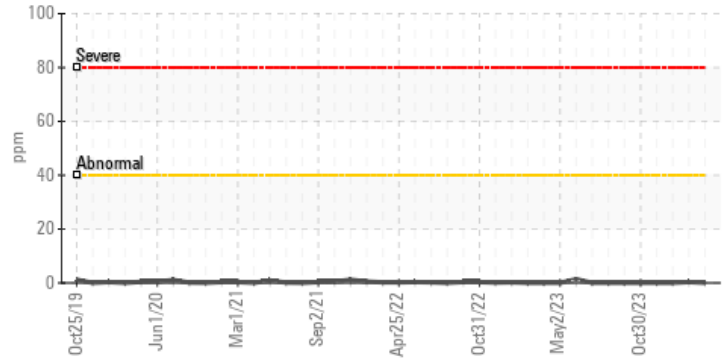


GRAPHS

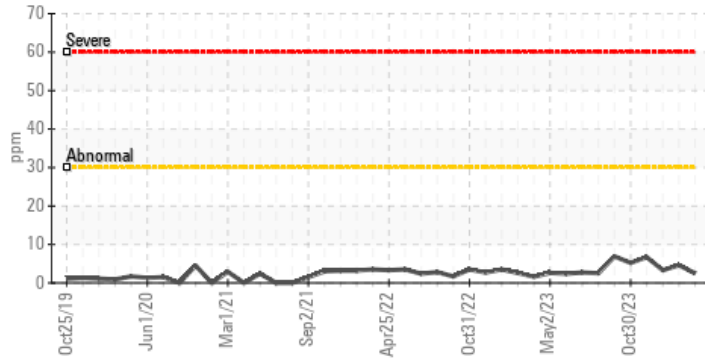
Iron (ppm)



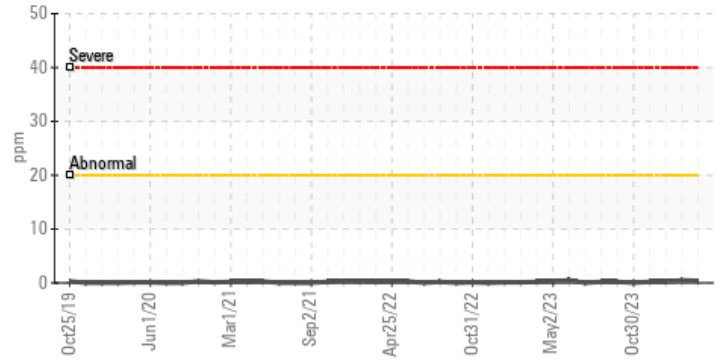
Lead (ppm)



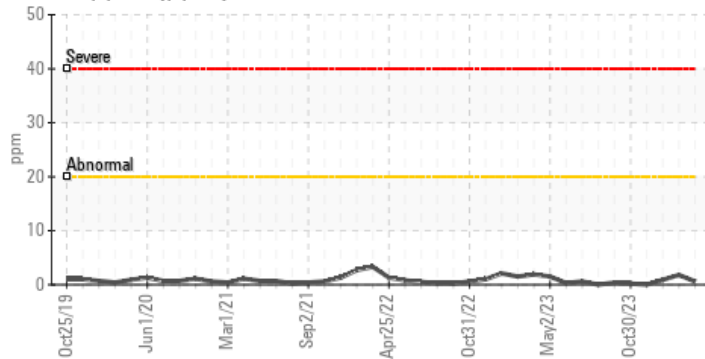
Aluminum (ppm)



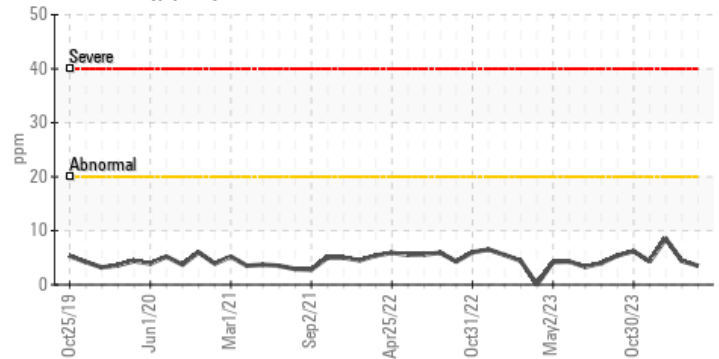
Chromium (ppm)



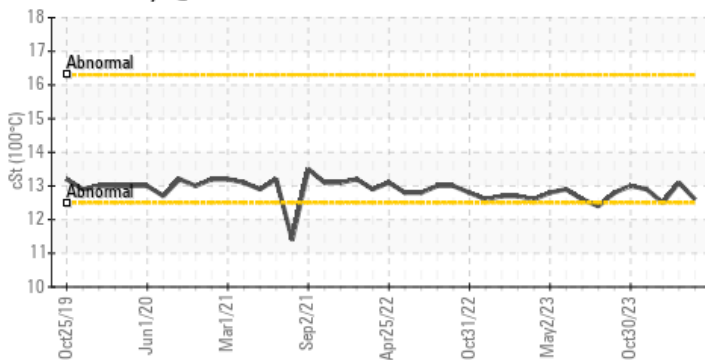
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

