



CONSTRUCTION EQUIPMENT

VOLVO A40G 352 198 - DIESEL ENGINE



Sample No: VCP435446
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP435446	VCP435151	VCP416161	VCP378559
Sample Date	29 Apr 2024	02 Apr 2024	13 Feb 2024	14 Dec 2023
Machine Hours	5700	5479	5214	4956
Oil Hours	221	265	258	348
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.7	12.7	12.8	12.7
Base Number (BN)	mg KOH/g	9.4	8.8	7.2	6.4
Oxidation (PA)	%	74	71	64	63



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	52	61	66	74
Sulfation (PA)	%	58	55	52	51
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	6	10	5
Sodium	ppm	2	2	5	<1
Potassium	ppm	<1	2	2	2



WEAR METALS

Iron	ppm	2	4	5	4
Copper	ppm	1	<1	1	<1
Lead	ppm	0	<1	<1	0
Tin	ppm	<1	<1	<1	0
Aluminum	ppm	2	3	6	3
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	54	74	156	119
Nickel	ppm	0	1	2	1
Titanium	ppm	0	<1	<1	0
Silver	ppm	0	<1	0	0
Manganese	ppm	<1	0	<1	0
Vanadium	ppm	0	<1	<1	0



ADDITIVES

Calcium	ppm	1733	1498	1927	1240
Magnesium	ppm	549	551	886	650
Zinc	ppm	928	893	1241	856
Phosphorus	ppm	802	789	965	772
Barium	ppm	0	0	34	0
Boron	ppm	77	91	147	106

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: SCHGRE
Unique No: 11018431
Signed: Wes Davis
Report Date: 09 May 2024

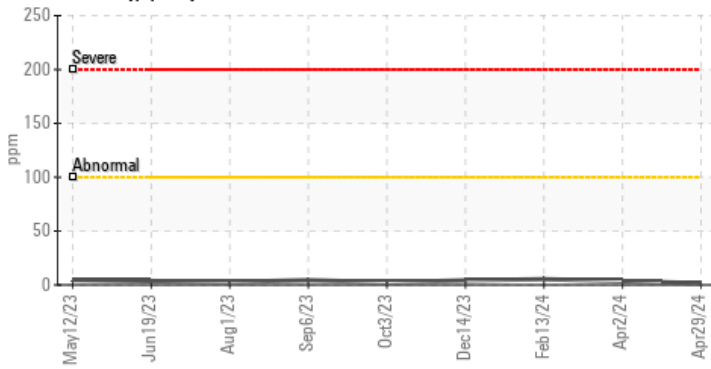


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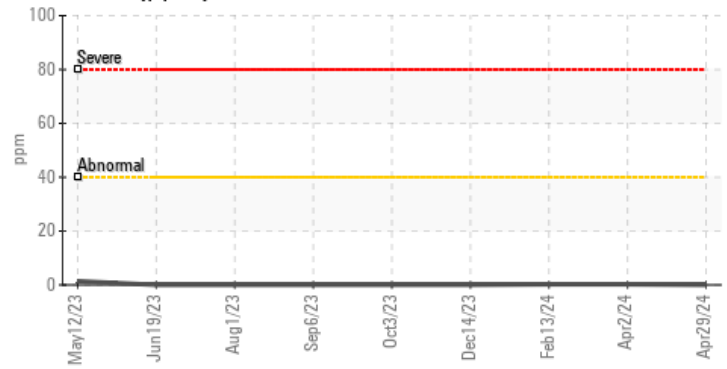


GRAPHS

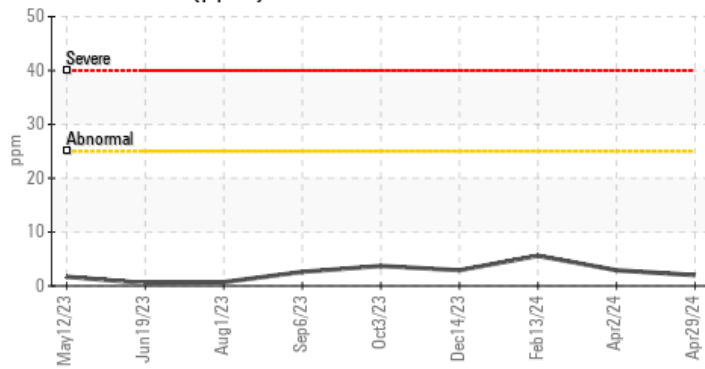
Iron (ppm)



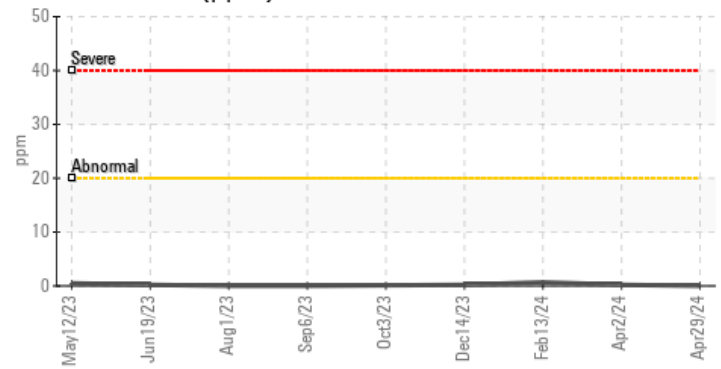
Lead (ppm)



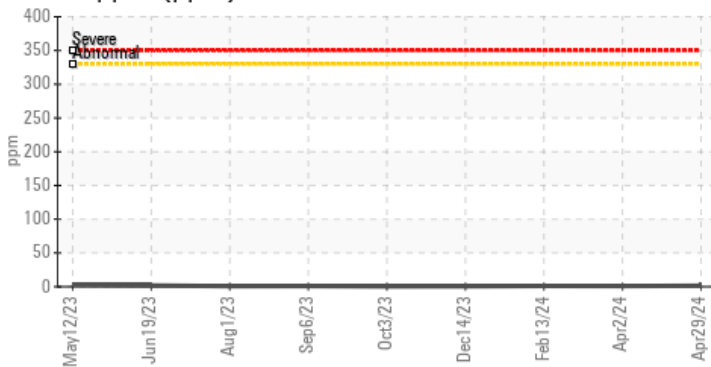
Aluminum (ppm)



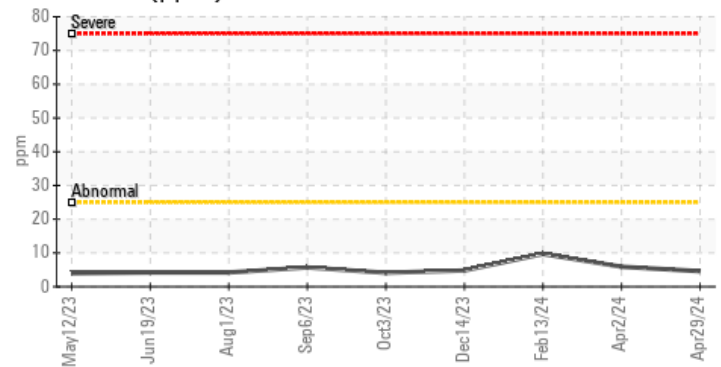
Chromium (ppm)



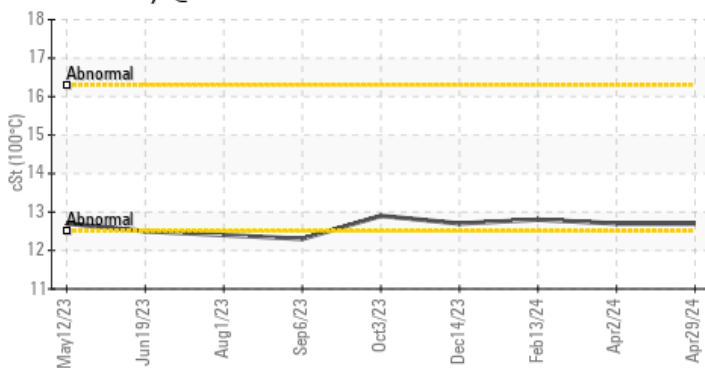
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

