



CONSTRUCTION EQUIPMENT

VOLVO A40G 342252 - DIESEL ENGINE



Sample No: VCP401121
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP401121	VCP441994	VCP440659	VCP398094
Sample Date	11 Mar 2024	06 Feb 2024	29 Nov 2023	30 Oct 2023
Machine Hours	11973	11740	11431	11266
Oil Hours	233	309	165	231
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.7	12.4	12.9	12.86
Viscosity Index (VI)	Scale	---	---	---	130
Base Number (BN)	mg KOH/g	8.9	6.6	6.3	7.0
Oxidation (PA)	%	73	60	57	60

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 %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	55	70	65	68
Sulfation (PA)	%	57	50	49	50
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	0.3	<1.0	<1.0
Silicon	ppm	3	10	4	4
Sodium	ppm	2	2	3	3
Potassium	ppm	0	2	<1	1



WEAR METALS

Iron	ppm	2	5	2	4
Copper	ppm	0	1	0	<1
Lead	ppm	0	0	0	0
Tin	ppm	0	0	0	0
Aluminum	ppm	1	5	4	3
Chromium	ppm	0	<1	<1	0
Molybdenum	ppm	63	189	127	110
Nickel	ppm	0	<1	0	0
Titanium	ppm	0	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	0	0
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1727	1902	1268	1329
Magnesium	ppm	582	1009	672	669
Zinc	ppm	960	1325	878	894
Phosphorus	ppm	831	1092	705	736
Barium	ppm	0	13	0	0
Boron	ppm	76	192	147	119

Depot: SCHGRE
Unique No: 10937554
Signed: Wes Davis
Report Date: 21 Mar 2024

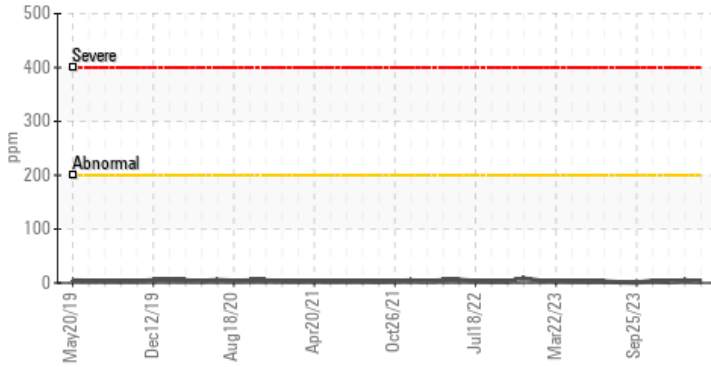


CONSTRUCTION EQUIPMENT

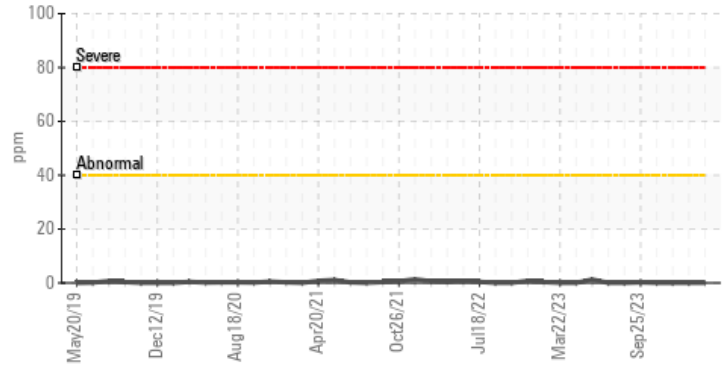


GRAPHS

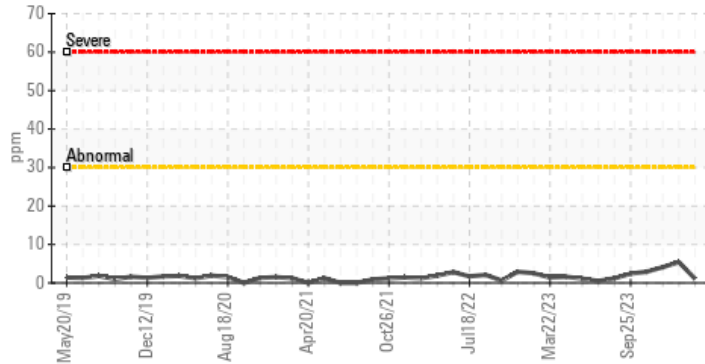
Iron (ppm)



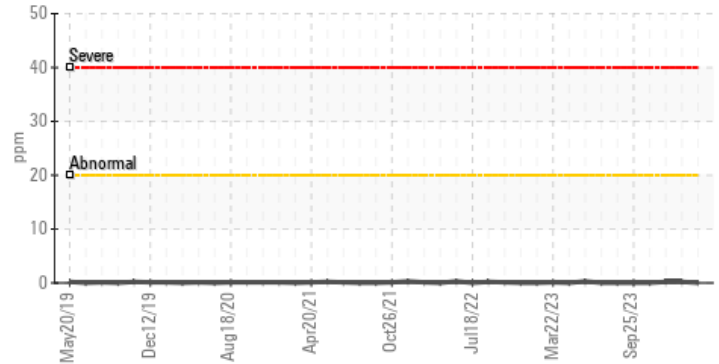
Lead (ppm)



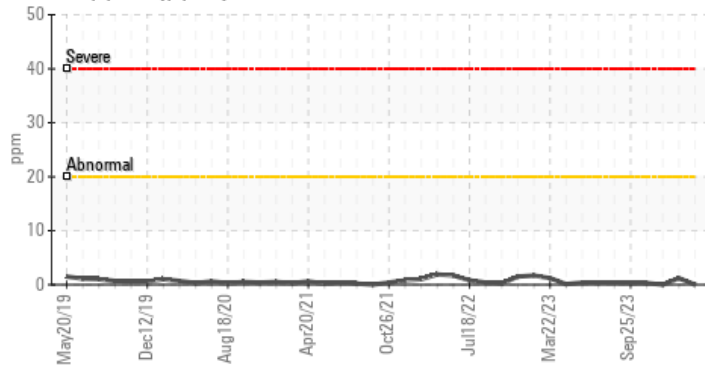
Aluminum (ppm)



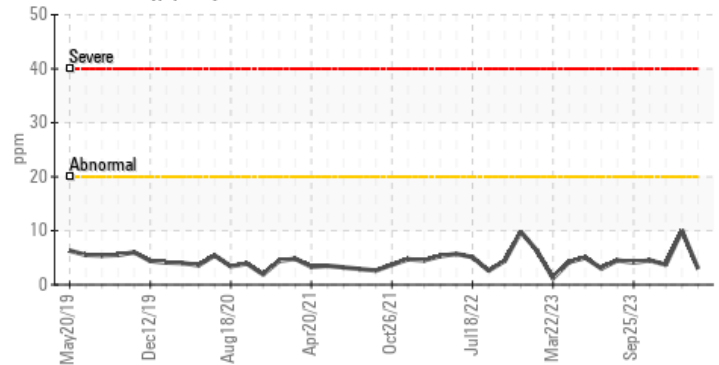
Chromium (ppm)



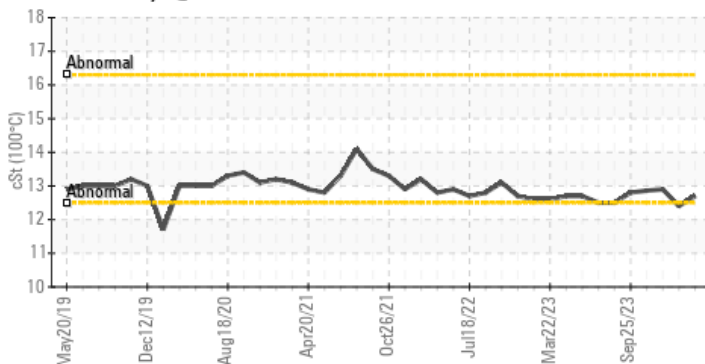
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

