



CONSTRUCTION EQUIPMENT

2902 VOLVO A40G 352566 - DIESEL ENGINE



Sample No: VCP339709
Oil Type: MOBIL 15W40
Job No: 2902



SAMPLE INFORMATION

Sample Number	VCP339709	VCP312553	VCP404642	VCP401928
Sample Date	06 Nov 2023	04 Oct 2023	21 Aug 2023	13 Jul 2023
Machine Hours	4808	4584	4239	3940
Oil Hours	224	345	299	306
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.9	12.6	12.4	12.6
Base Number (BN)	mg KOH/g	6.7	8.3	10.2	10.1
Oxidation (PA)	%	61	71	80	80



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.2	0.2	0.1
Nitration (PA)	%	69	61	55	53
Sulfation (PA)	%	51	55	61	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	4	4	3
Sodium	ppm	2	2	2	0
Potassium	ppm	<1	1	<1	2



WEAR METALS

Iron	ppm	2	4	4	4
Copper	ppm	1	<1	<1	<1
Lead	ppm	0	0	0	<1
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	3	3	<1	<1
Chromium	ppm	0	<1	<1	0
Molybdenum	ppm	118	69	37	43
Nickel	ppm	0	<1	0	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	1322	1462	1669	1689
Magnesium	ppm	699	547	522	489
Zinc	ppm	930	882	867	913
Phosphorus	ppm	721	770	732	776
Barium	ppm	0	0	2	2
Boron	ppm	118	61	49	53

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: 10755196
Signed: Jonathan Hester
Report Date: 27 Nov 2023

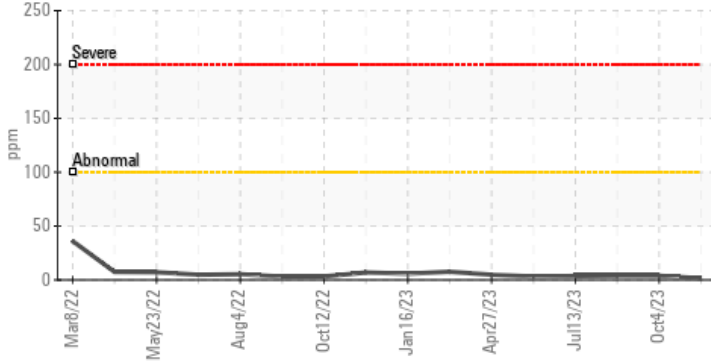


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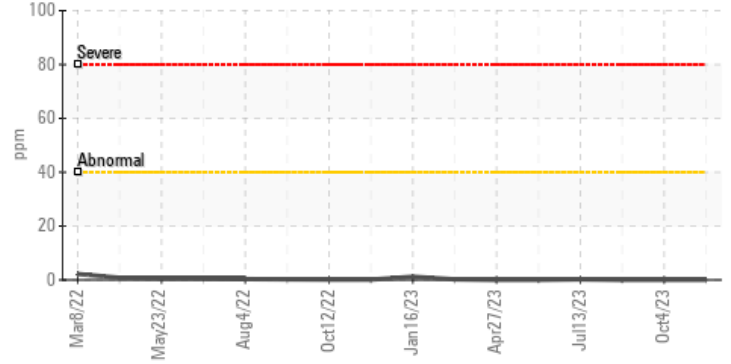


GRAPHS

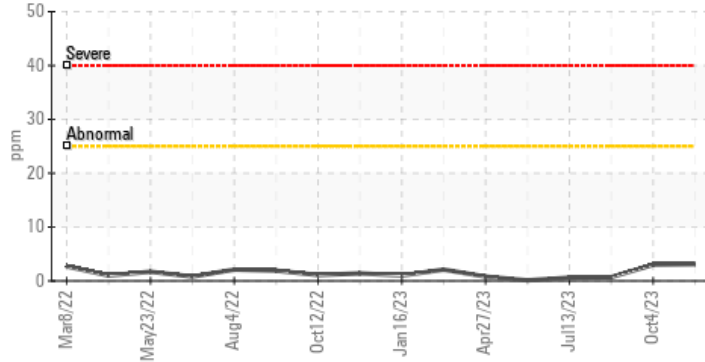
Iron (ppm)



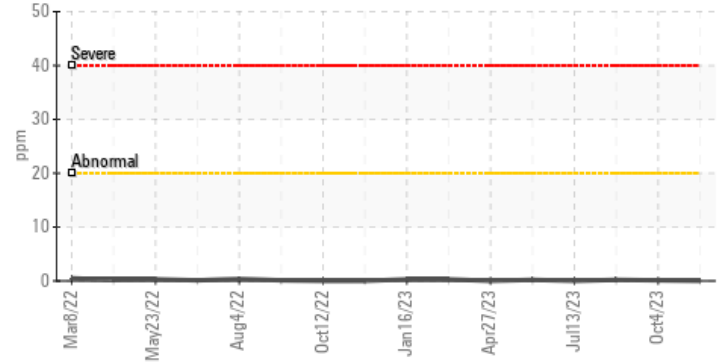
Lead (ppm)



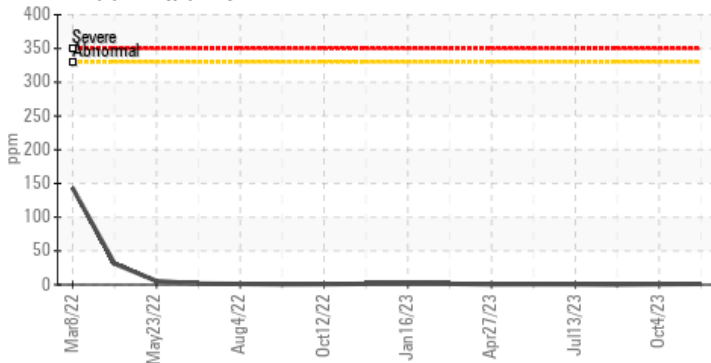
Aluminum (ppm)



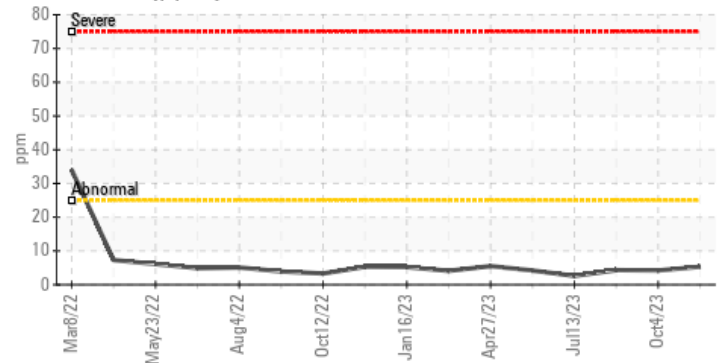
Chromium (ppm)



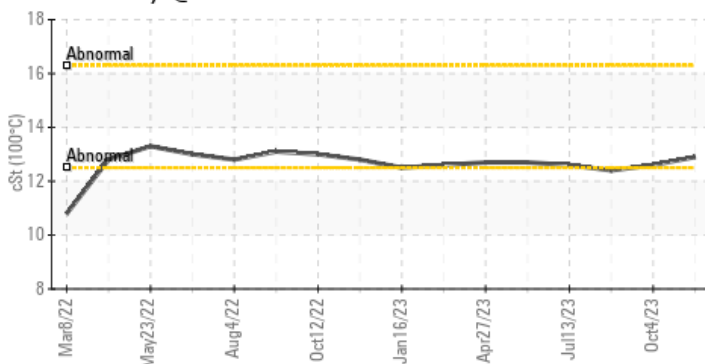
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

