



CONSTRUCTION EQUIPMENT

VOLVO A40G 341476 - DIESEL ENGINE



Sample No: VCP404731
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP404731	VCP406000	VCP406127	VCP400076
Sample Date	24 Oct 2023	12 Sep 2023	01 Aug 2023	20 Jun 2023
Machine Hours	17166	16932	16630	16355
Oil Hours	234	302	275	271
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.1	12.8	12.9	13.2
Base Number (BN)	mg KOH/g	7.8	9.5	9.4	9.4
Oxidation (PA)	%	78	94	94	94



CONTAMINATION

Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	77	72	72	67
Sulfation (PA)	%	58	66	66	66
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	5	5	5
Sodium	ppm	4	<1	3	2
Potassium	ppm	2	1	0	<1



WEAR METALS

Iron	ppm	3	4	3	3
Copper	ppm	<1	<1	0	0
Lead	ppm	0	<1	<1	0
Tin	ppm	<1	<1	0	0
Aluminum	ppm	4	2	<1	<1
Chromium	ppm	<1	0	0	<1
Molybdenum	ppm	100	44	43	42
Nickel	ppm	<1	0	0	0
Titanium	ppm	<1	0	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	<1	0	<1	0



ADDITIVES

Calcium	ppm	1426	1737	1833	1847
Magnesium	ppm	641	505	551	548
Zinc	ppm	953	970	960	1011
Phosphorus	ppm	776	782	814	822
Barium	ppm	<1	0	0	0
Boron	ppm	80	47	51	56

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: 10723708
Signed: Wes Davis
Report Date: 02 Nov 2023

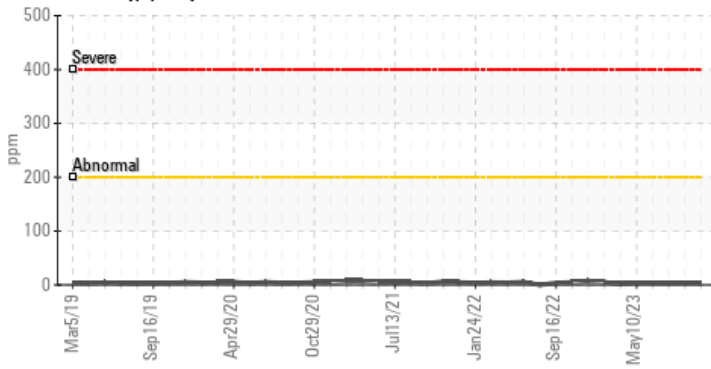


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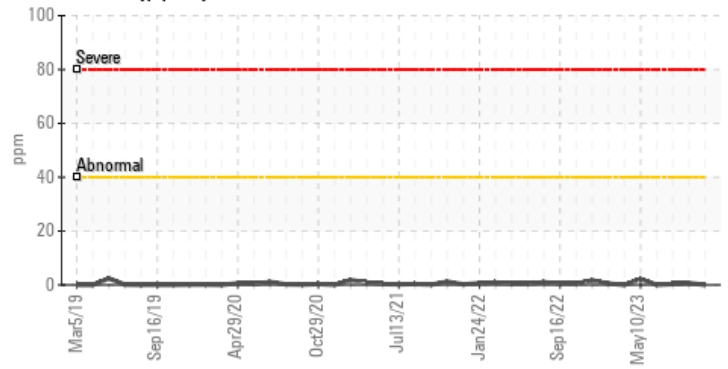


GRAPHS

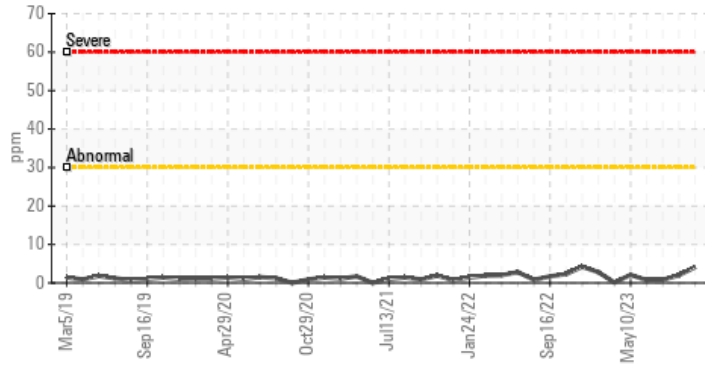
Iron (ppm)



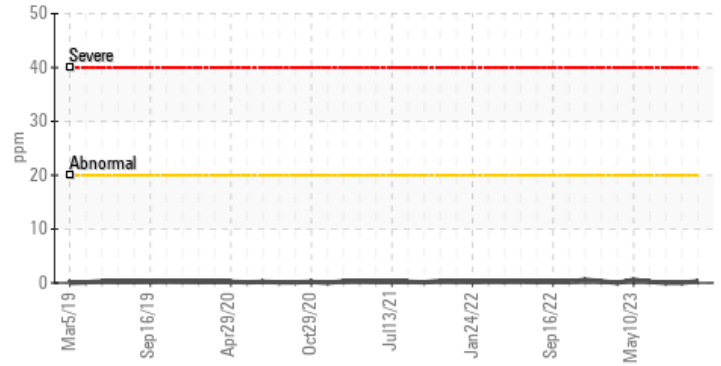
Lead (ppm)



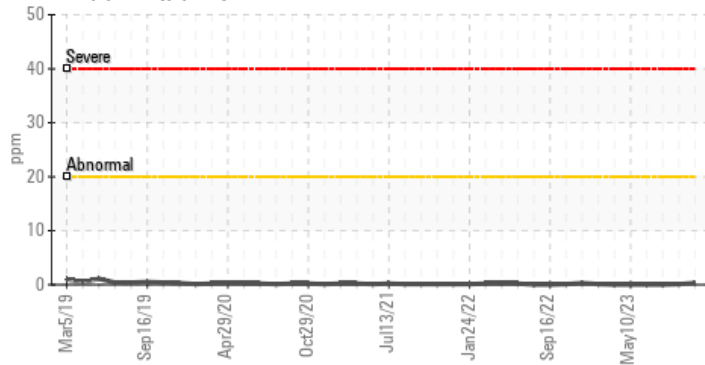
Aluminum (ppm)



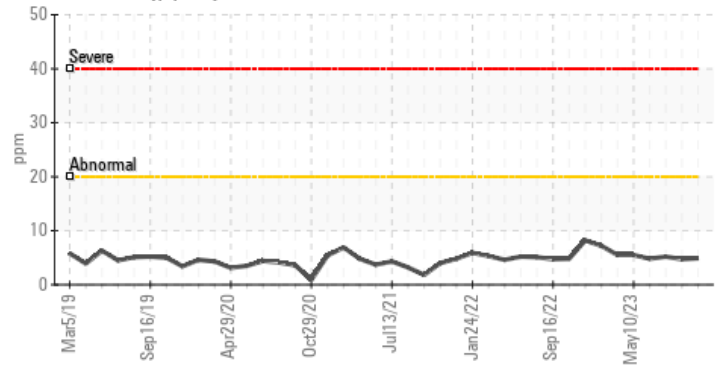
Chromium (ppm)



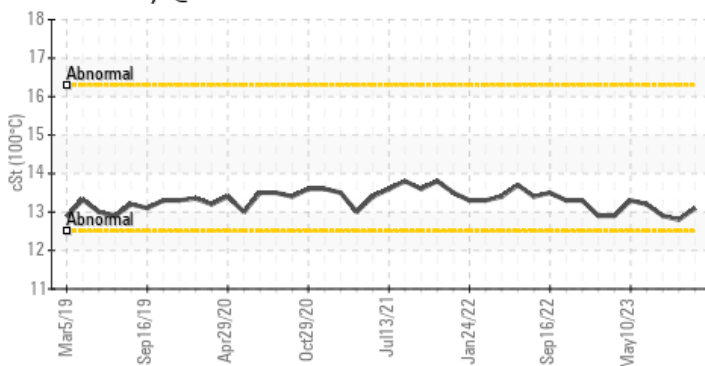
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

