



CONSTRUCTION EQUIPMENT

VOLVO A40G 341476 - DIESEL ENGINE



Sample No: VCP406000
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP406000	VCP406127	VCP400076	VCP386165
Sample Date	12 Sep 2023	01 Aug 2023	20 Jun 2023	10 May 2023
Machine Hours	16932	16630	16355	16084
Oil Hours	302	275	271	342
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.8	12.9	13.2	13.3
Base Number (BN)	mg KOH/g	9.5	9.4	9.4	9.3
Oxidation (PA)	%	94	94	94	97



CONTAMINATION

Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	72	72	67	75
Sulfation (PA)	%	66	66	66	67
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	5	5	6
Sodium	ppm	<1	3	2	2
Potassium	ppm	1	0	<1	3



WEAR METALS

Iron	ppm	4	3	3	4
Copper	ppm	<1	0	0	0
Lead	ppm	<1	<1	0	2
Tin	ppm	<1	0	0	<1
Aluminum	ppm	2	<1	<1	2
Chromium	ppm	0	0	<1	<1
Molybdenum	ppm	44	43	42	40
Nickel	ppm	0	0	0	<1
Titanium	ppm	0	<1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	<1	0	<1



ADDITIVES

Calcium	ppm	1737	1833	1847	1801
Magnesium	ppm	505	551	548	544
Zinc	ppm	970	960	1011	988
Phosphorus	ppm	782	814	822	761
Barium	ppm	0	0	0	0
Boron	ppm	47	51	56	57

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: 10671648
Signed: Wes Davis
Report Date: 02 Oct 2023

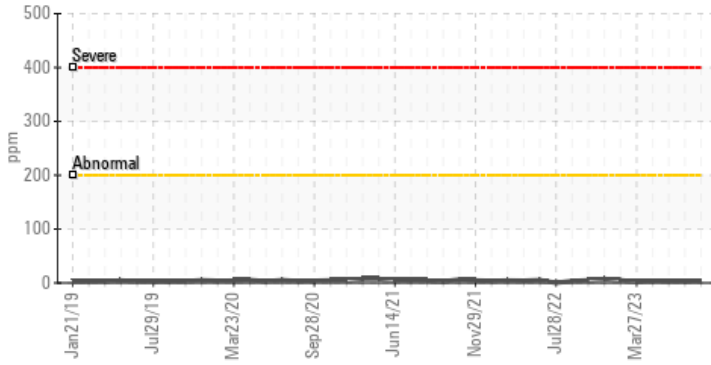


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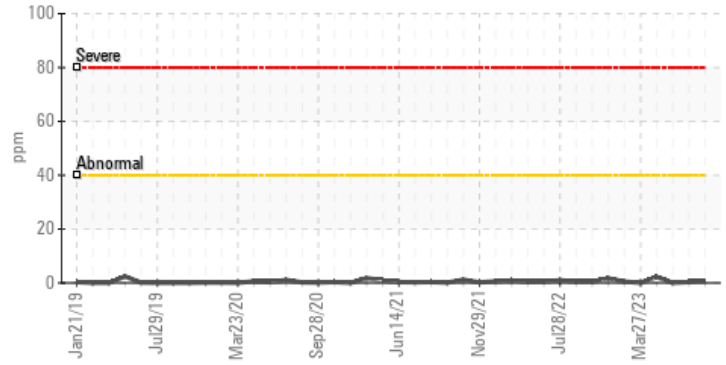


GRAPHS

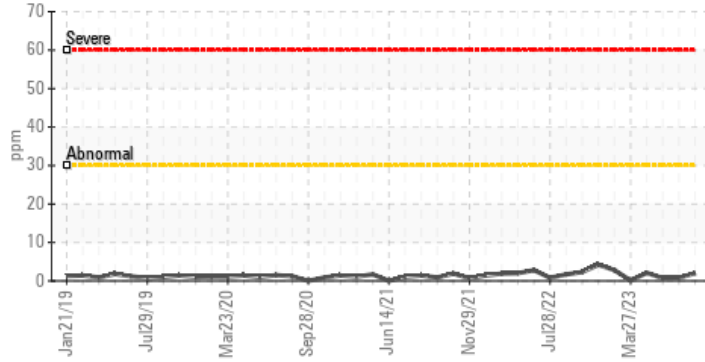
Iron (ppm)



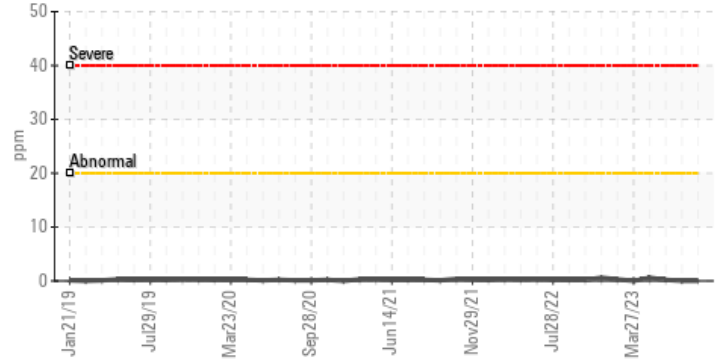
Lead (ppm)



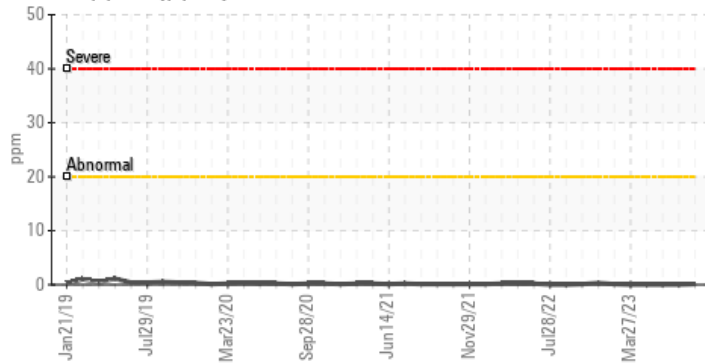
Aluminum (ppm)



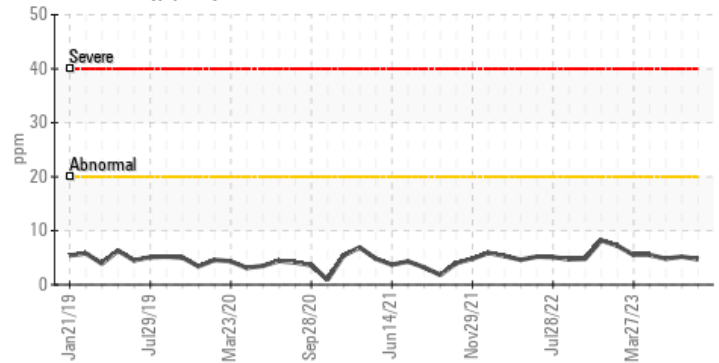
Chromium (ppm)



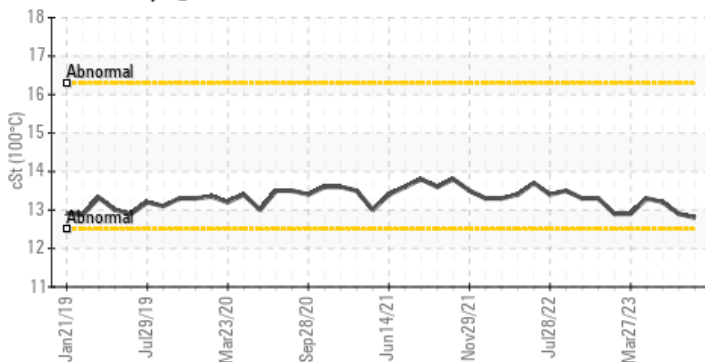
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

