



CONSTRUCTION EQUIPMENT

VOLVO A40G 342010 - DIESEL ENGINE



Sample No: VCP378435
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP378435	VCP406133	VCP379367	VCP362754
Sample Date	12 Sep 2023	01 Aug 2023	20 Jun 2023	10 May 2023
Machine Hours	8374	8039	7743	7457
Oil Hours	335	296	286	342
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.2	12.4	12.5	12.5
Base Number (BN)	mg KOH/g	10.3	10.3	10.1	10.1
Oxidation (PA)	%	80	80	82	81



CONTAMINATION

Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	49	48	48	50
Sulfation (PA)	%	60	60	61	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	5	5	5
Sodium	ppm	<1	3	2	2
Potassium	ppm	<1	0	<1	3



WEAR METALS

Iron	ppm	2	2	3	2
Copper	ppm	<1	<1	<1	0
Lead	ppm	0	0	0	1
Tin	ppm	<1	0	0	<1
Aluminum	ppm	2	<1	<1	2
Chromium	ppm	0	0	<1	<1
Molybdenum	ppm	41	41	41	35
Nickel	ppm	0	0	0	<1
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	<1	0	<1



ADDITIVES

Calcium	ppm	1647	1713	1780	1660
Magnesium	ppm	473	514	539	478
Zinc	ppm	902	887	981	884
Phosphorus	ppm	742	767	807	677
Barium	ppm	0	0	0	0
Boron	ppm	48	55	59	52

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: 10671663
Signed: Wes Davis
Report Date: 02 Oct 2023

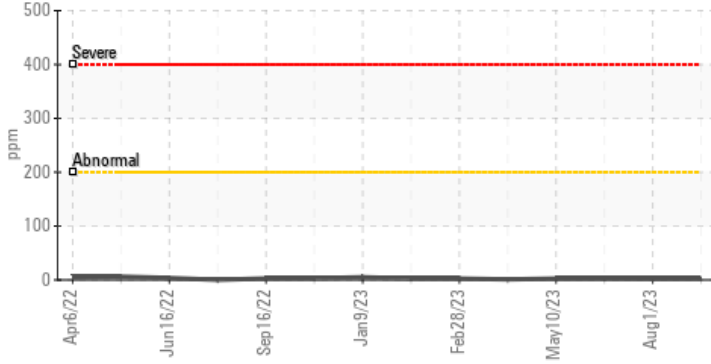


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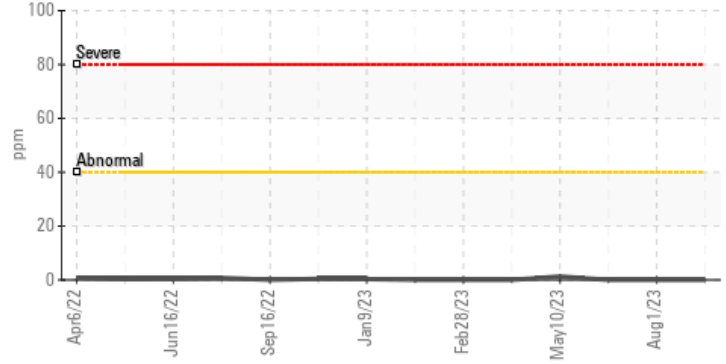


GRAPHS

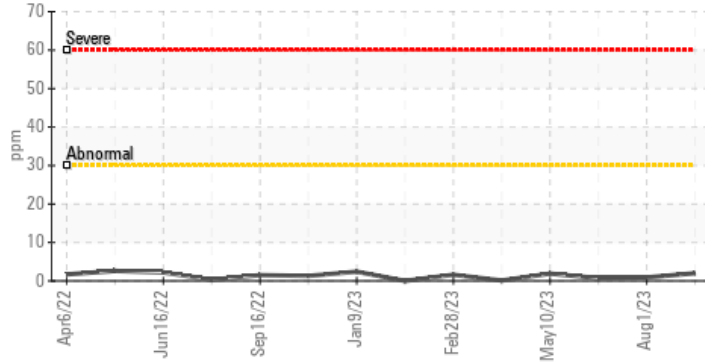
Iron (ppm)



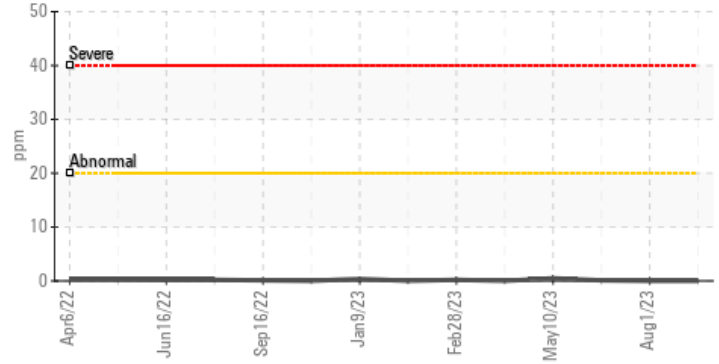
Lead (ppm)



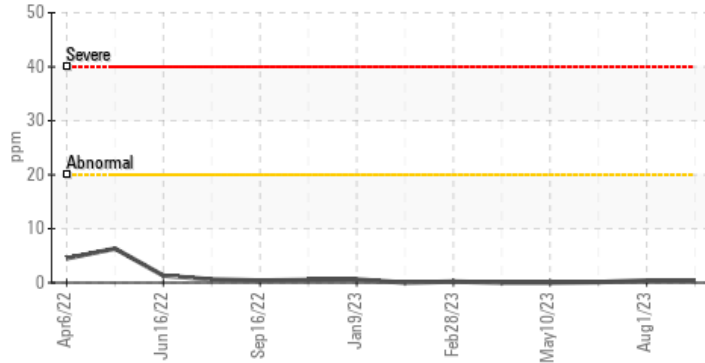
Aluminum (ppm)



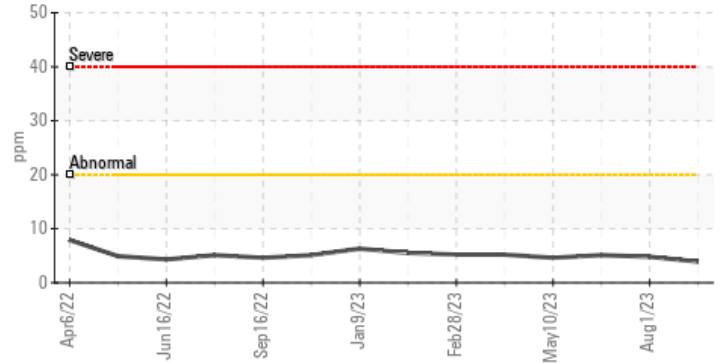
Chromium (ppm)



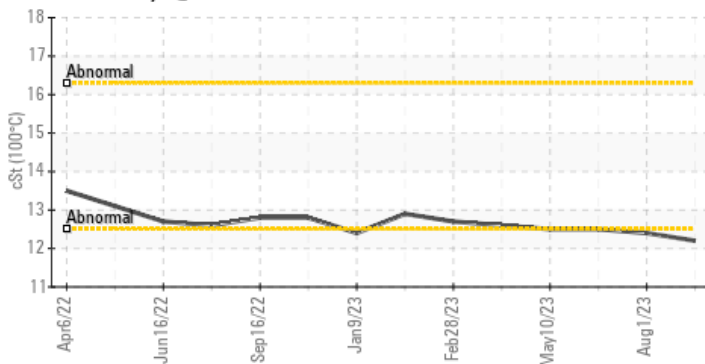
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

