



CONSTRUCTION EQUIPMENT

VOLVO A40G 352341 - DIESEL ENGINE



Sample No: VCP312555
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP312555	VCP405986	VCP406468	VCP385225
Sample Date	03 Oct 2023	24 Aug 2023	13 Jul 2023	30 May 2023
Machine Hours	6606	6283	5997	5702
Oil Hours	323	286	295	228
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	12.6	12.7
Base Number (BN)	mg KOH/g	8.1	10.1	9.9	9.9
Oxidation (PA)	%	67	80	80	80



CONTAMINATION

Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	59	52	53	53
Sulfation (PA)	%	52	61	60	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	4	4	5
Sodium	ppm	2	2	0	2
Potassium	ppm	1	1	1	0



WEAR METALS

Iron	ppm	3	3	3	3
Copper	ppm	<1	0	<1	<1
Lead	ppm	<1	0	0	0
Tin	ppm	0	<1	0	<1
Aluminum	ppm	4	2	1	<1
Chromium	ppm	<1	<1	0	<1
Molybdenum	ppm	86	36	42	39
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1449	1641	1683	1698
Magnesium	ppm	591	514	476	496
Zinc	ppm	900	853	895	911
Phosphorus	ppm	771	720	761	720
Barium	ppm	0	2	2	0
Boron	ppm	75	45	51	50

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: 10700644
Signed: Wes Davis
Report Date: 20 Oct 2023

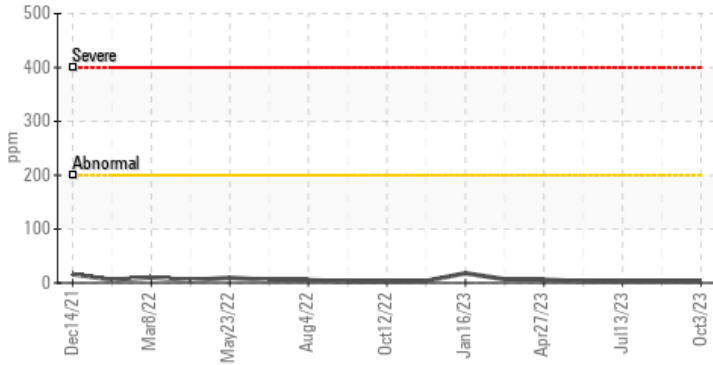


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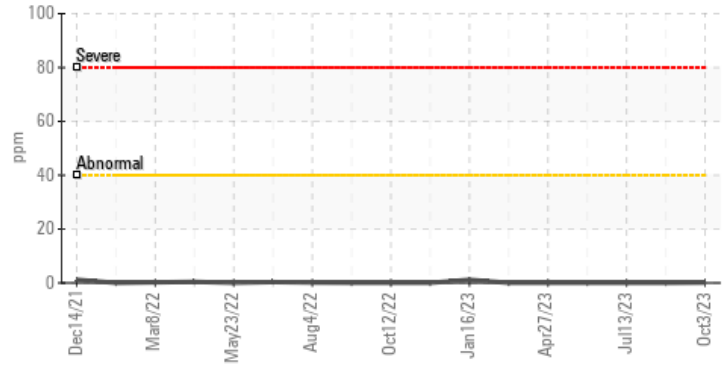


GRAPHS

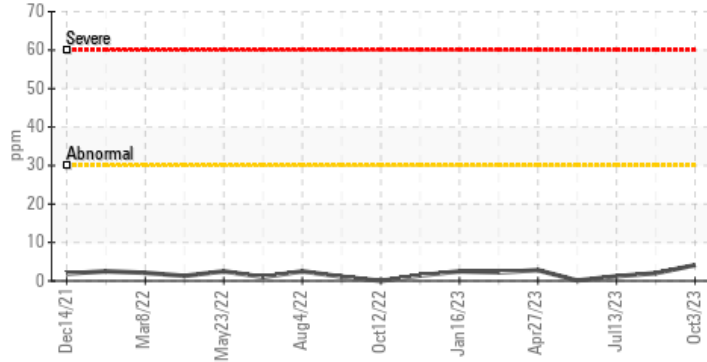
Iron (ppm)



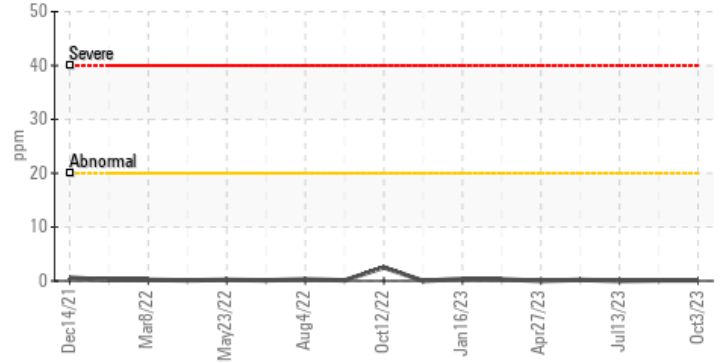
Lead (ppm)



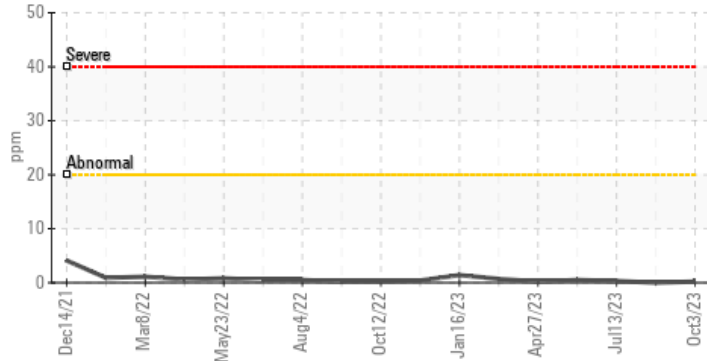
Aluminum (ppm)



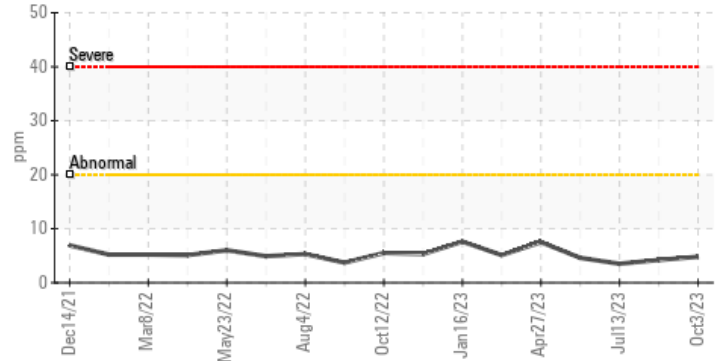
Chromium (ppm)



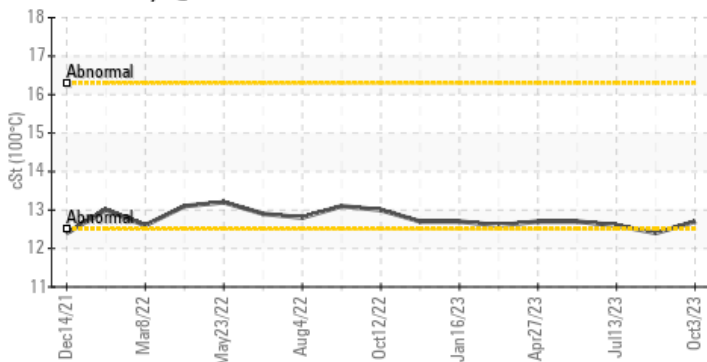
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

