



CONSTRUCTION EQUIPMENT

VOLVO A40G 340668 - WET DISC BRAKE



Sample No: VCP312538
Oil Type: MOBIL MOBILGARD 424
Job No:



SAMPLE INFORMATION

Sample Number	VCP312538	VCP406128	VCP405742	VCP384412
Sample Date	24 Oct 2023	01 Aug 2023	20 Jun 2023	27 Mar 2023
Machine Hours	16708	16113	15839	15225
Oil Hours	595	2004	1730	1116
Oil Changed	Not Chngd	Changed	Not Chngd	Not Chngd
Sample Status	NORMAL	ABNORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	52.2	51.5	51.7	51.6
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CONTAMINATION

Silicon	ppm	17	13	19	16
Sodium	ppm	0	3	7	8
Potassium	ppm	2	2	0	<1

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 condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	14	14	15	18
Copper	ppm	47	61	53	53
Lead	ppm	<1	<1	0	0
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	2	<1	2
Chromium	ppm	<1	<1	0	<1
Molybdenum	ppm	<1	<1	<1	<1
Nickel	ppm	<1	<1	<1	1
Titanium	ppm	0	<1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	3484	3354	3412	3428
Magnesium	ppm	18	16	16	21
Zinc	ppm	1395	1336	1384	1389
Phosphorus	ppm	1191	1152	1114	1144
Barium	ppm	0	0	0	0
Boron	ppm	111	123	117	110

Depot: SCHGRE
Unique No: 10724404
Signed: Don Baldrige
Report Date: 03 Nov 2023

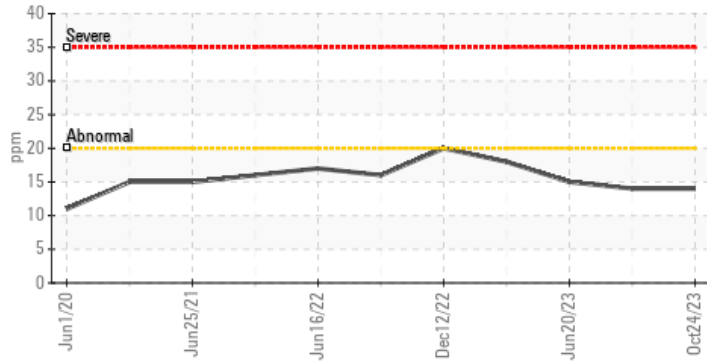


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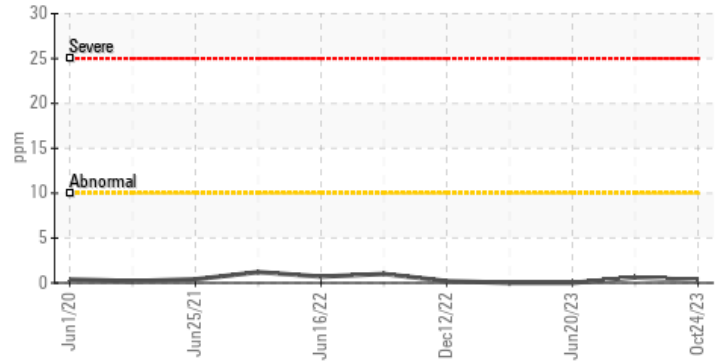


GRAPHS

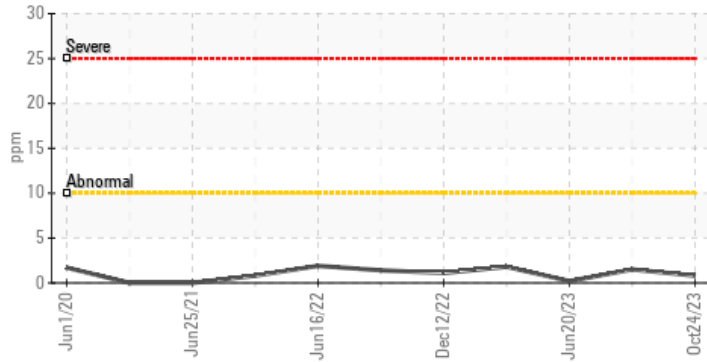
Iron (ppm)



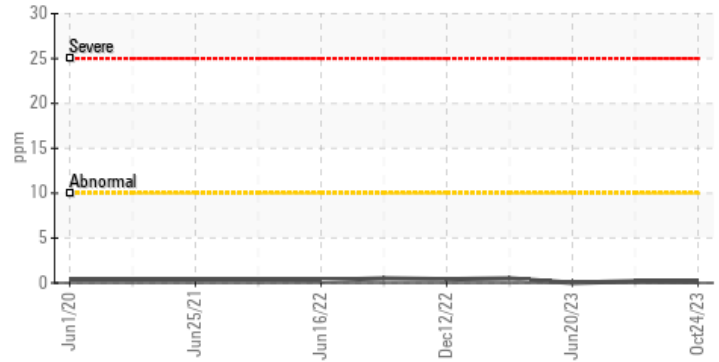
Lead (ppm)



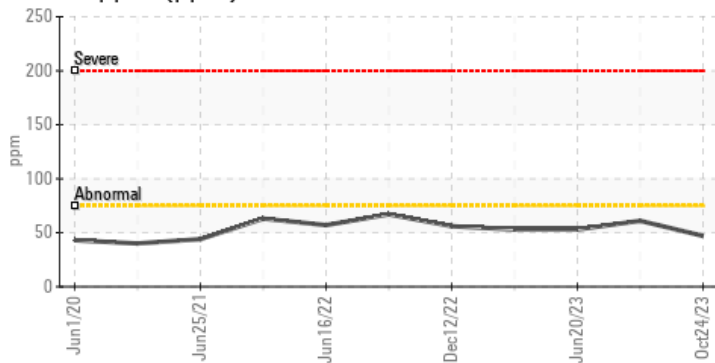
Aluminum (ppm)



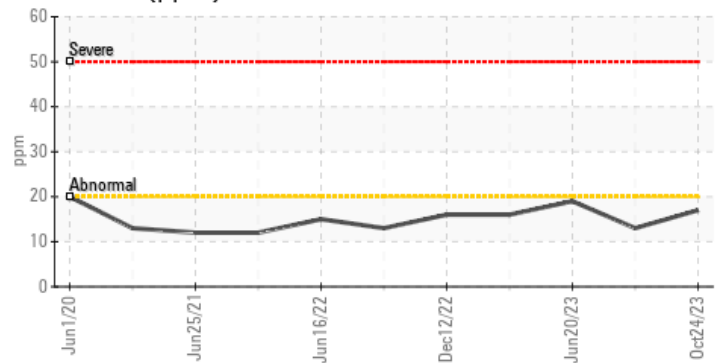
Chromium (ppm)



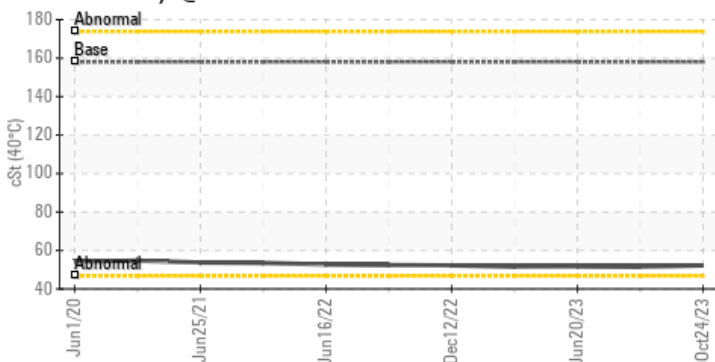
Copper (ppm)



Silicon (ppm)



Viscosity @ 40°C



Additives

