



CONSTRUCTION EQUIPMENT

2901 VOLVO A40G 352199 - WET DISC BRAKE



Sample No: VCP404834
Oil Type: MOBIL MOBILGARD 424
Job No: 2901



SAMPLE INFORMATION

Sample Number	VCP404834	VCP385114	VCP390553	VCP385096
Sample Date	19 Jul 2023	02 May 2023	13 Feb 2023	01 Nov 2022
Machine Hours	5644	5149	4597	4083
Oil Hours	1047	1025	2023	1909
Oil Changed	Not Chngd	Not Chngd	Changed	Not Chngd
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	ABNORMAL

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OIL CONDITION

Visc @ 40°C	cSt	42.9	43.1	39.7	39.6
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CONTAMINATION

Silicon	ppm	17	19	18	18
Sodium	ppm	6	6	8	10
Potassium	ppm	<1	0	0	0

Diagnosis

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. The iron level is abnormal. The copper level is abnormal. 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	28	28	32	33
Copper	ppm	202	209	295	326
Lead	ppm	2	0	3	0
Tin	ppm	<1	0	0	0
Aluminum	ppm	0	<1	<1	1
Chromium	ppm	1	1	<1	<1
Molybdenum	ppm	<1	<1	0	0
Nickel	ppm	5	5	7	6
Titanium	ppm	<1	<1	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	1	2	2	1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	2997	3235	3021	3315
Magnesium	ppm	14	15	15	4
Zinc	ppm	1289	1412	1252	1406
Phosphorus	ppm	1126	1220	1153	1286
Barium	ppm	0	0	0	0
Boron	ppm	103	93	100	101

Depot: SCHGRE
Unique No: 10586837
Signed: Don Baldrige
Report Date: 04 Aug 2023

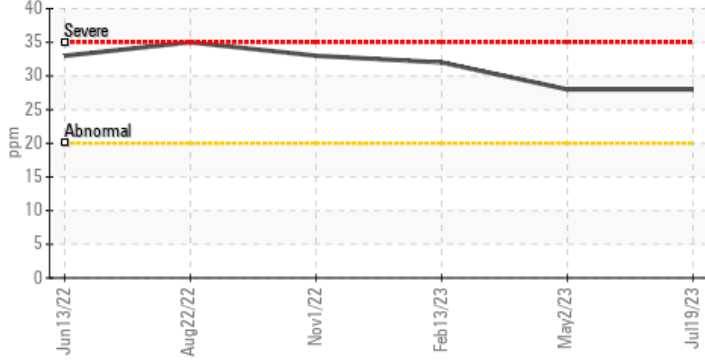


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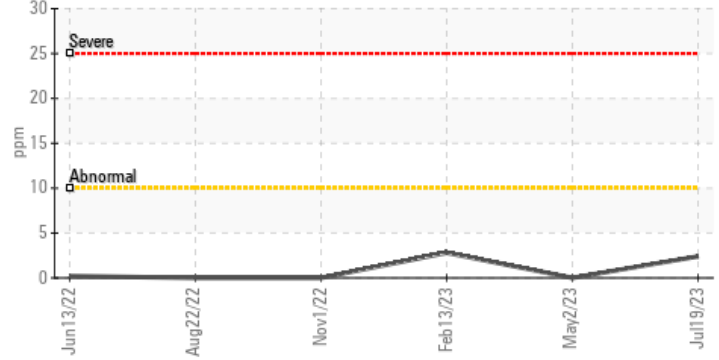


VOLVO GRAPHS

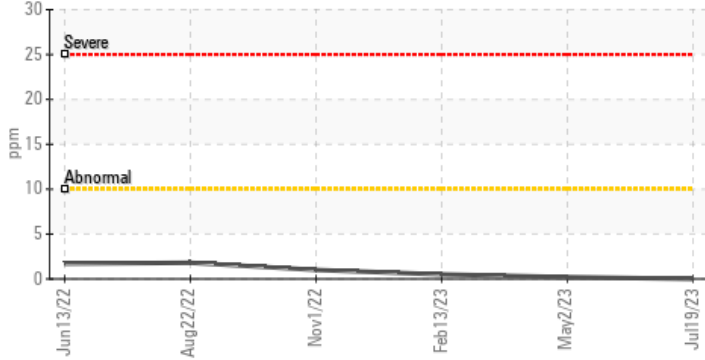
▲ Iron (ppm)



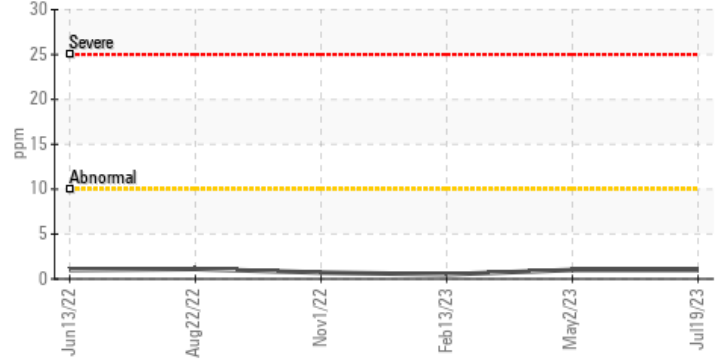
Lead (ppm)



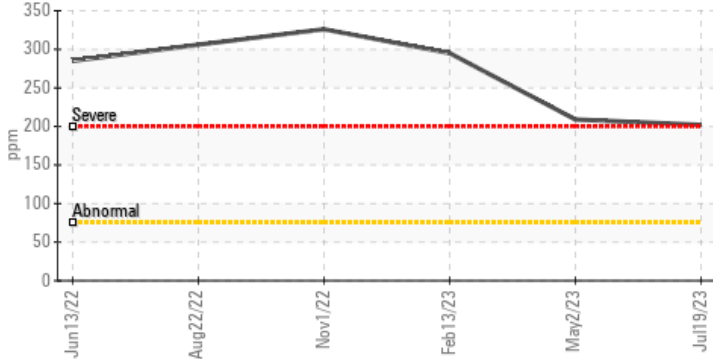
Aluminum (ppm)



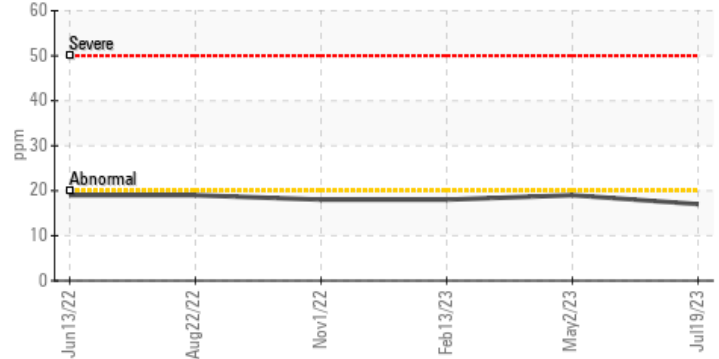
Chromium (ppm)



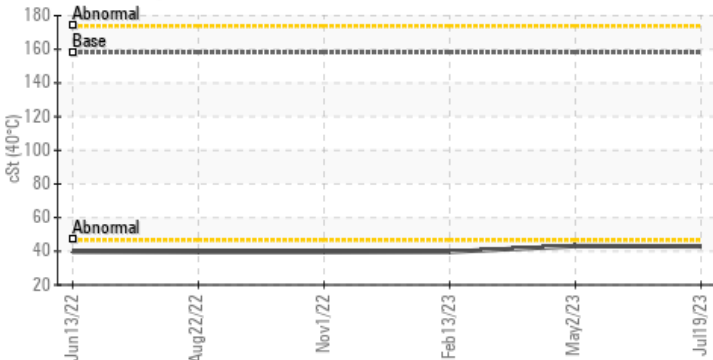
▲ Copper (ppm)



Silicon (ppm)



Viscosity @ 40°C



Additives

