



CONSTRUCTION EQUIPMENT

VOLVO A40G 352349 - WET DISC BRAKE



Sample No: VCP442000
Oil Type: MOBIL MOBILFLUID 424
Job No:



SAMPLE INFORMATION

Sample Number	VCP442000	VCP436354	VCP393400	VCP341881
Sample Date	15 Apr 2024	08 Feb 2024	30 Oct 2023	09 Oct 2023
Machine Hours	7156	6743	6234	6086
Oil Hours	1678	1265	756	608
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Changed
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	ABNORMAL

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OIL CONDITION

Visc @ 40°C	cSt	46.9	47.2	47.6	44.5
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	15	16	17	15
Sodium	ppm	4	2	5	4
Potassium	ppm	2	2	0	2

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	23	23	21	16
Copper	ppm	118	123	99	158
Lead	ppm	<1	0	<1	0
Tin	ppm	<1	0	0	0
Aluminum	ppm	2	2	<1	1
Chromium	ppm	1	<1	<1	<1
Molybdenum	ppm	<1	<1	<1	<1
Nickel	ppm	4	4	3	4
Titanium	ppm	<1	<1	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	3482	3669	3416	3213
Magnesium	ppm	14	16	7	11
Zinc	ppm	1415	1526	1468	1427
Phosphorus	ppm	1276	1380	1180	1184
Barium	ppm	0	12	0	0
Boron	ppm	134	127	116	110

Depot: SCHGRE
Unique No: 11009514
Signed: Don Baldrige
Report Date: 07 May 2024

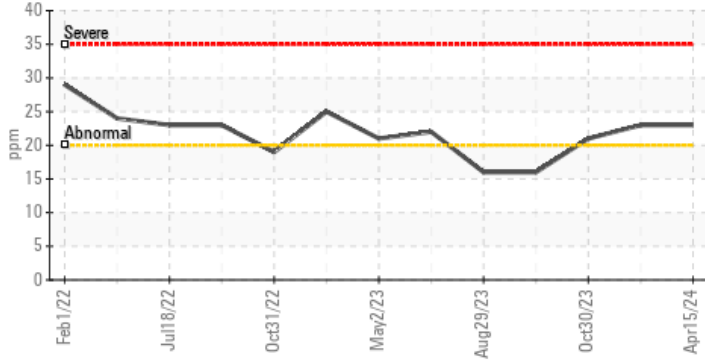


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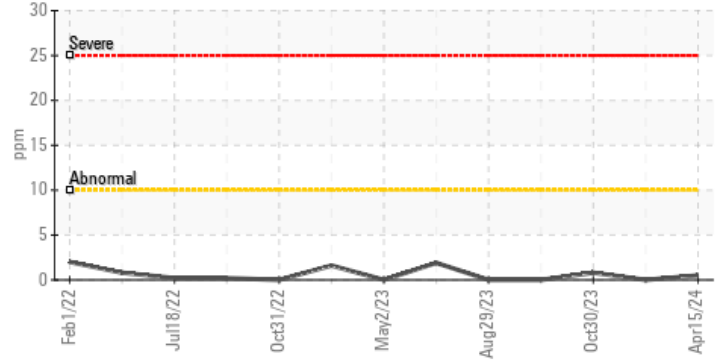


GRAPHS

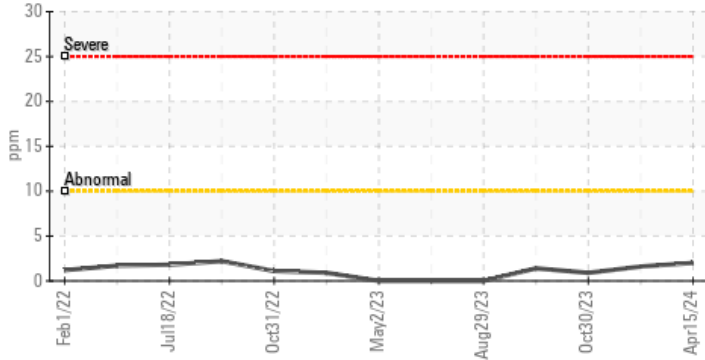
▲ Iron (ppm)



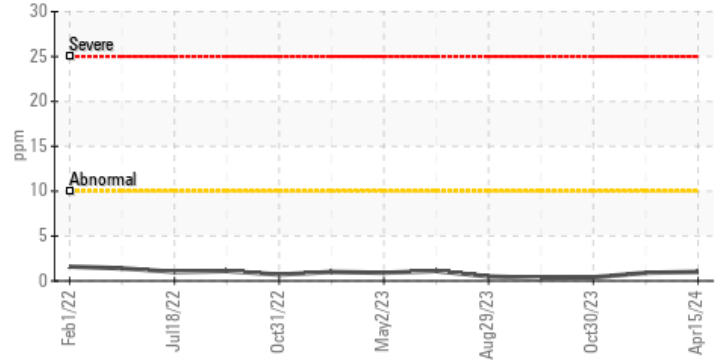
Lead (ppm)



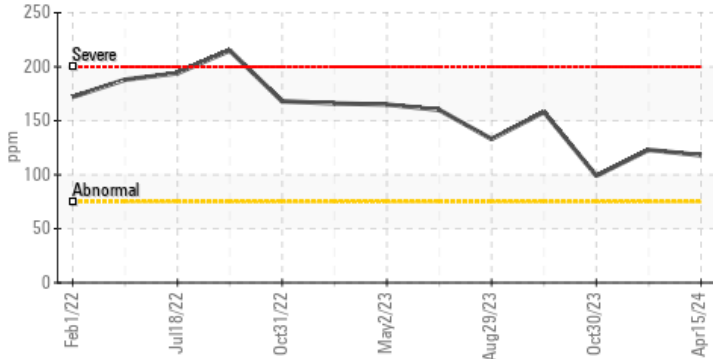
Aluminum (ppm)



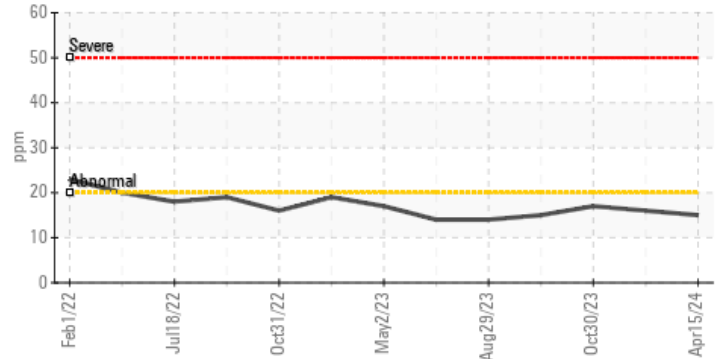
Chromium (ppm)



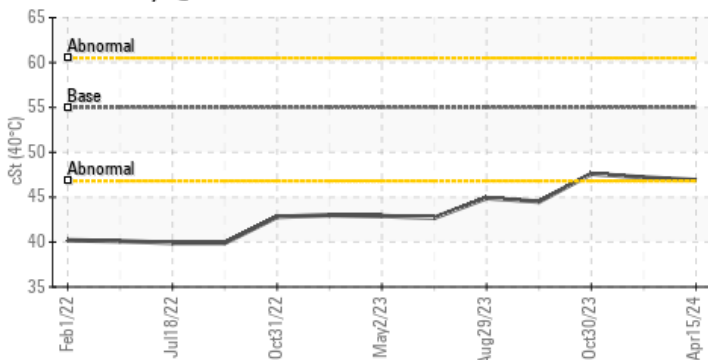
▲ Copper (ppm)



Silicon (ppm)



Viscosity @ 40°C



Additives

