



CONSTRUCTION EQUIPMENT

VOLVO A40G 352349 - WET DISC BRAKE



Sample No: VCP452543
Oil Type: MOBIL MOBILFLUID 424
Job No:



SAMPLE INFORMATION

Sample Number	VCP452543	VCP442000	VCP436354	VCP393400
Sample Date	10 Jun 2024	15 Apr 2024	08 Feb 2024	30 Oct 2023
Machine Hours	7523	7156	6743	6234
Oil Hours	2045	1678	1265	756
Oil Changed	Changed	Not Changd	Not Changd	Not Changd
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	ABNORMAL

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OIL CONDITION

Visc @ 40°C	cSt	45.4	46.9	47.2	47.6
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	14	15	16	17
Sodium	ppm	4	4	2	5
Potassium	ppm	2	2	2	0

Diagnosis

No corrective action is recommended at this time. Oil and 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. Moderate concentration of visible dirt/debris present in the oil. The condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	20	23	23	21
Copper	ppm	110	118	123	99
Lead	ppm	0	<1	0	<1
Tin	ppm	0	<1	0	0
Aluminum	ppm	2	2	2	<1
Chromium	ppm	<1	1	<1	<1
Molybdenum	ppm	<1	<1	<1	<1
Nickel	ppm	3	4	4	3
Titanium	ppm	<1	<1	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	<1	0	0



ADDITIVES

Calcium	ppm	3257	3482	3669	3416
Magnesium	ppm	14	14	16	7
Zinc	ppm	1380	1415	1526	1468
Phosphorus	ppm	1143	1276	1380	1180
Barium	ppm	0	0	12	0
Boron	ppm	106	134	127	116

Depot: SCHGRE
Unique No: 11127008
Signed: Sean Felton
Report Date: 18 Jul 2024

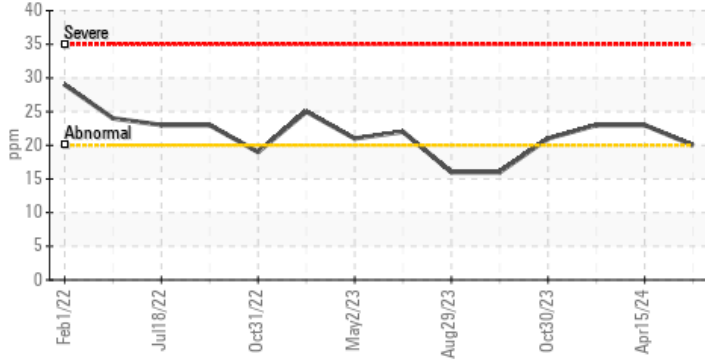


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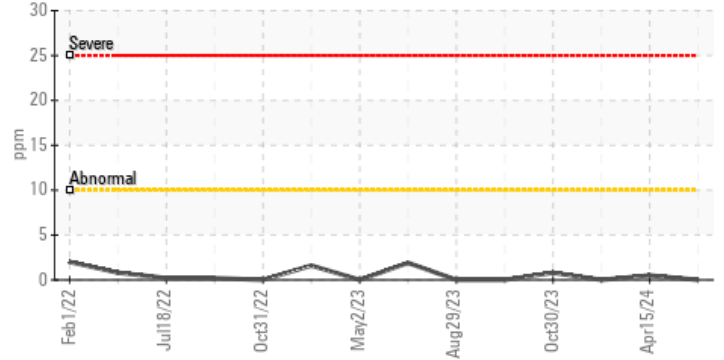


GRAPHS

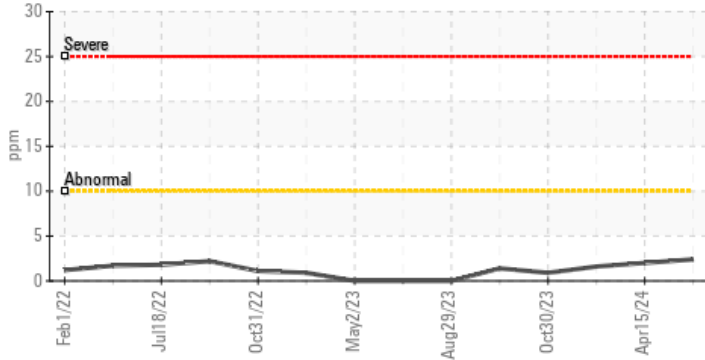
▲ Iron (ppm)



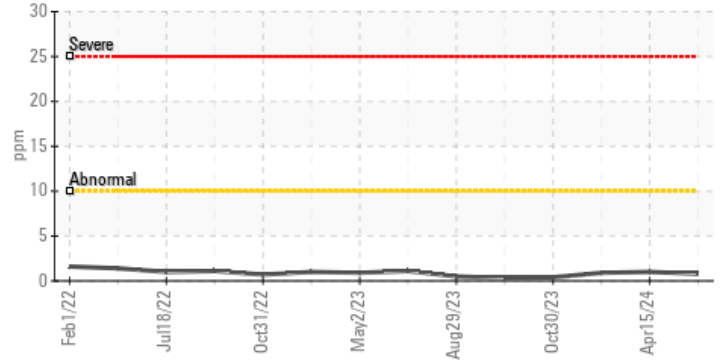
Lead (ppm)



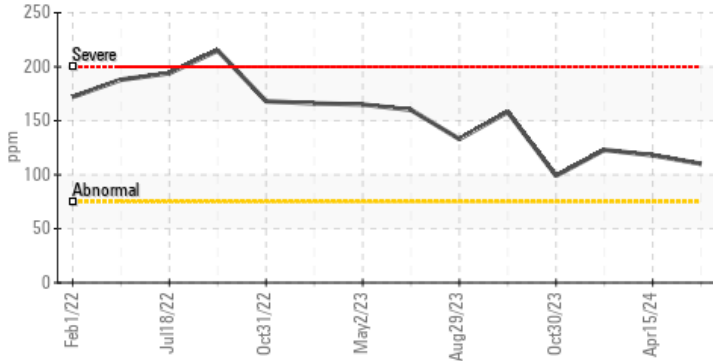
Aluminum (ppm)



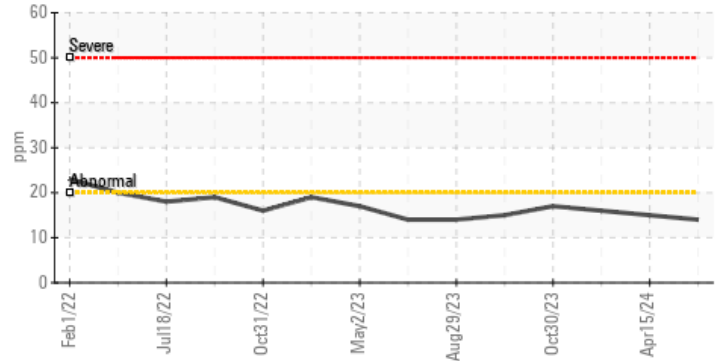
Chromium (ppm)



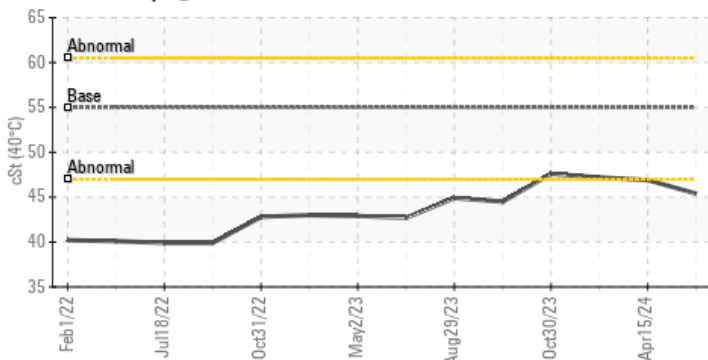
▲ Copper (ppm)



Silicon (ppm)



Viscosity @ 40°C



Additives

