



CONSTRUCTION EQUIPMENT

2864 VOLVO A40G 352349 - WET DISC BRAKE



Sample No: VCP402327
Oil Type: MOBIL MOBILFLUID 424
Job No: 2864



SAMPLE INFORMATION

Sample Number	VCP402327	VCP406830	VCP390552	VCP390573
Sample Date	19 Jul 2023	02 May 2023	13 Feb 2023	31 Oct 2022
Machine Hours	5478	4995	4463	3961
Oil Hours	1960	1477	945	443
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	42.7	42.9	43.0	42.8
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CONTAMINATION

Silicon	ppm	14	17	19	16
Sodium	ppm	8	8	8	9
Potassium	ppm	<1	0	0	0



WEAR METALS

Iron	ppm	22	21	25	19
Copper	ppm	160	165	166	168
Lead	ppm	2	0	2	0
Tin	ppm	<1	0	0	0
Aluminum	ppm	0	0	<1	1
Chromium	ppm	1	<1	1	<1
Molybdenum	ppm	<1	<1	<1	0
Nickel	ppm	5	5	4	4
Titanium	ppm	<1	0	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	1	1	2	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	3070	3348	3479	3705
Magnesium	ppm	16	15	20	8
Zinc	ppm	1335	1466	1353	1517
Phosphorus	ppm	1132	1232	1135	1269
Barium	ppm	0	0	0	0
Boron	ppm	108	99	118	113

Diagnosis

The oil change at the time of sampling has been noted. No corrective action is recommended at this time. 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.

Depot: SCHGRE
Unique No: 10586831
Signed: Don Baldrige
Report Date: 04 Aug 2023

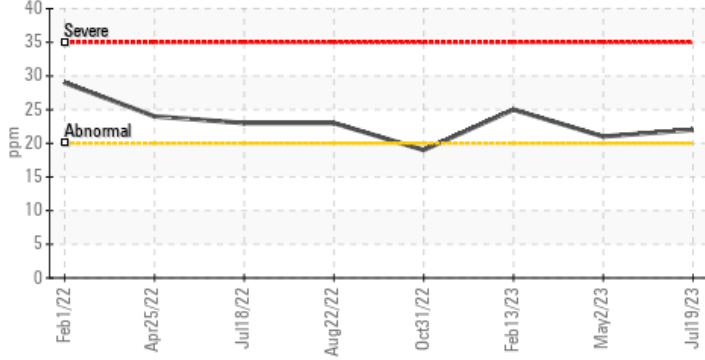


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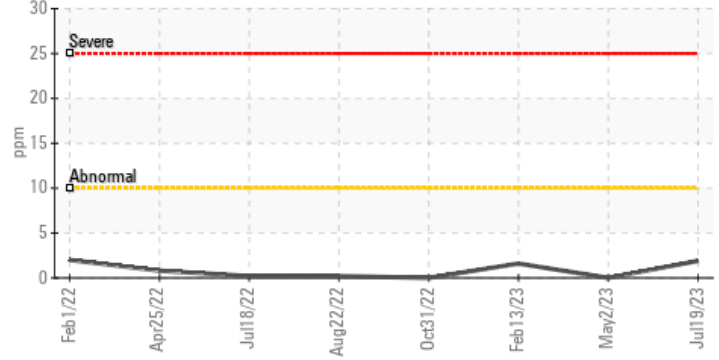


GRAPHS

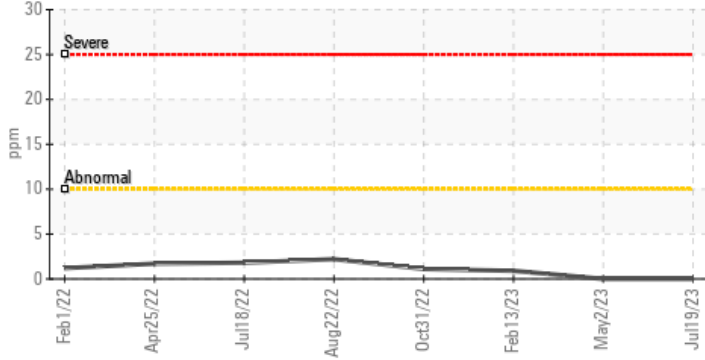
▲ Iron (ppm)



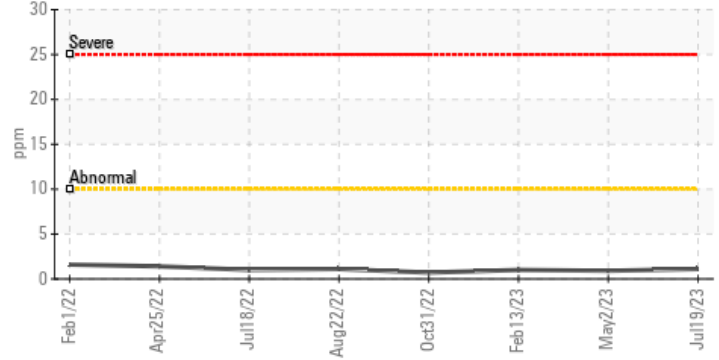
Lead (ppm)



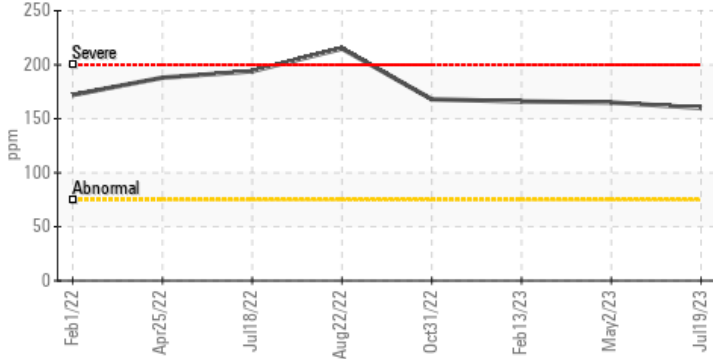
Aluminum (ppm)



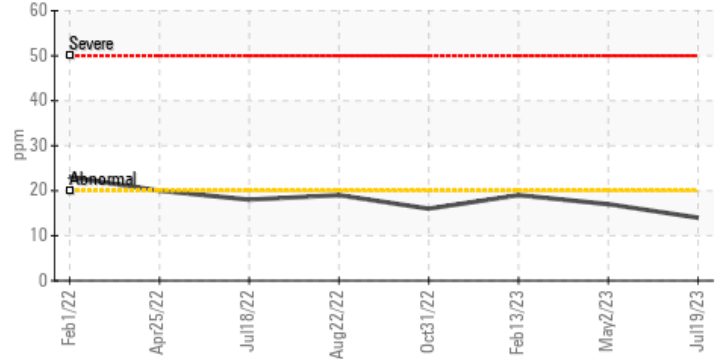
Chromium (ppm)



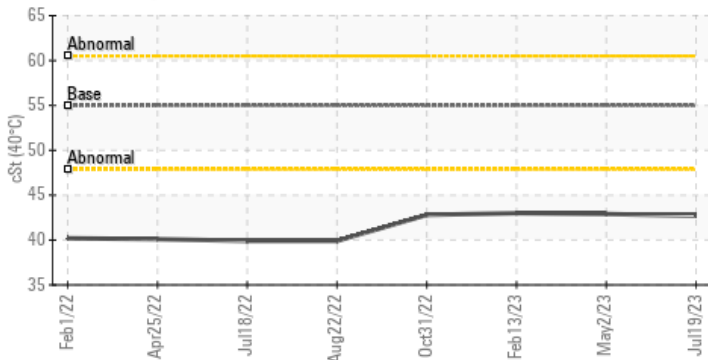
▲ Copper (ppm)



Silicon (ppm)



Viscosity @ 40°C



Additives

