



CONSTRUCTION EQUIPMENT

VOLVO A40D 13799 - WET DISC BRAKE



Sample No: VCP312939
Oil Type: MOBIL MOBILFLUID 424
Job No:



SAMPLE INFORMATION

Sample Number	VCP312939	VCP377262	VCP357103	VCP337177
Sample Date	06 Sep 2023	15 Mar 2023	10 Aug 2022	08 Dec 2021
Machine Hours	28216	27678	27193	25882
Oil Hours	1942	1404	919	1638
Oil Changed	Changed	Not Changd	Not Changd	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	54.1	54.6	55.2	53.9
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CONTAMINATION

Silicon	ppm	19	13	13	14
Sodium	ppm	6	8	7	5
Potassium	ppm	2	0	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	12	11	16
Copper	ppm	47	33	23	47
Lead	ppm	<1	0	<1	0
Tin	ppm	0	0	<1	0
Aluminum	ppm	3	2	2	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	<1	<1	<1	<1
Nickel	ppm	<1	0	0	<1
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	3441	3328	3541	3229
Magnesium	ppm	18	20	18	13
Zinc	ppm	1491	1311	1495	1291
Phosphorus	ppm	1165	1066	1167	1163
Barium	ppm	0	0	0	0
Boron	ppm	133	121	129	118

Depot: SCHGRE
Unique No: 10672291
Signed: Don Baldrige
Report Date: 02 Oct 2023

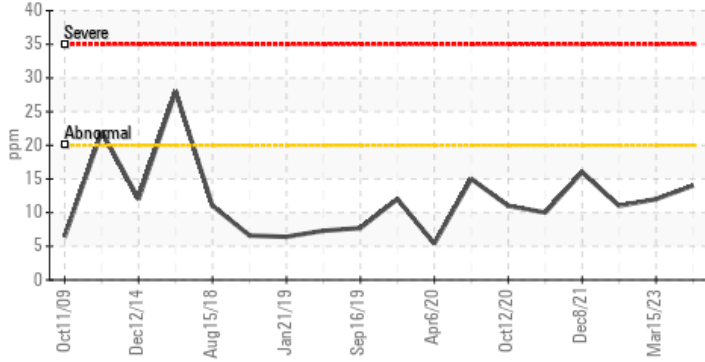


CONSTRUCTION EQUIPMENT

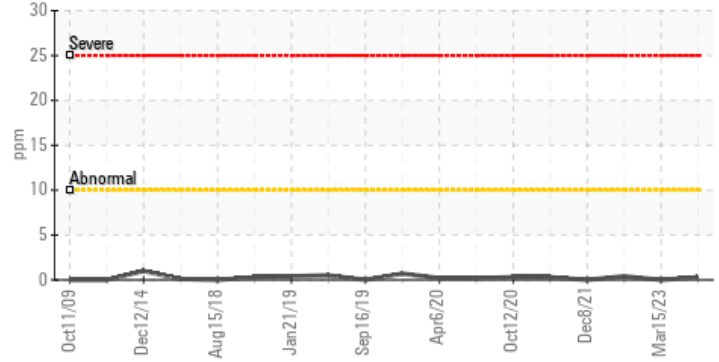


GRAPHS

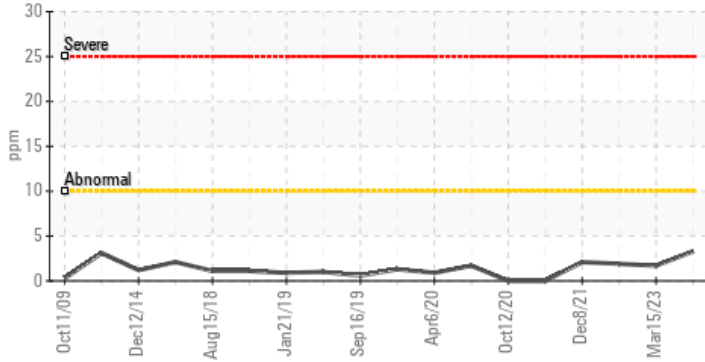
Iron (ppm)



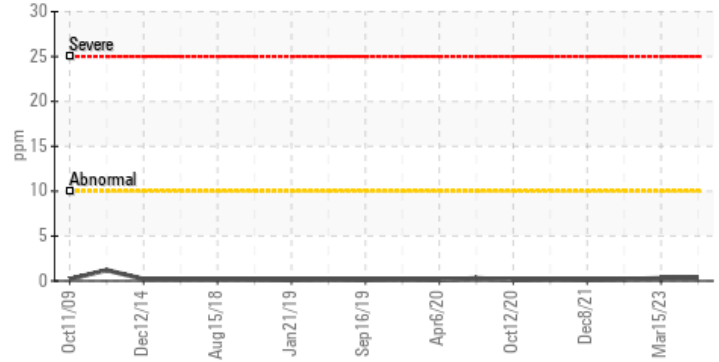
Lead (ppm)



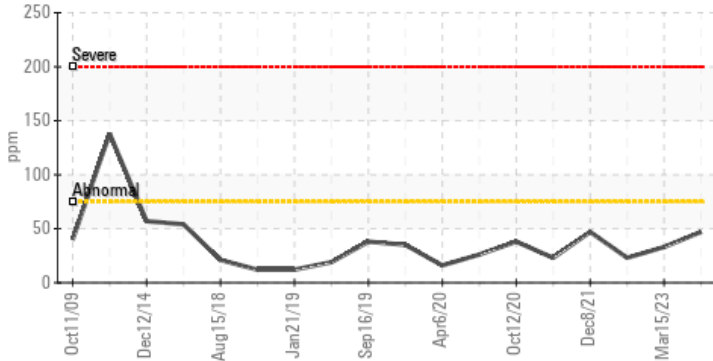
Aluminum (ppm)



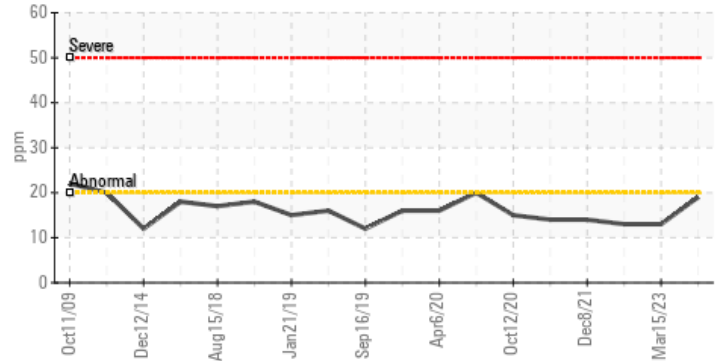
Chromium (ppm)



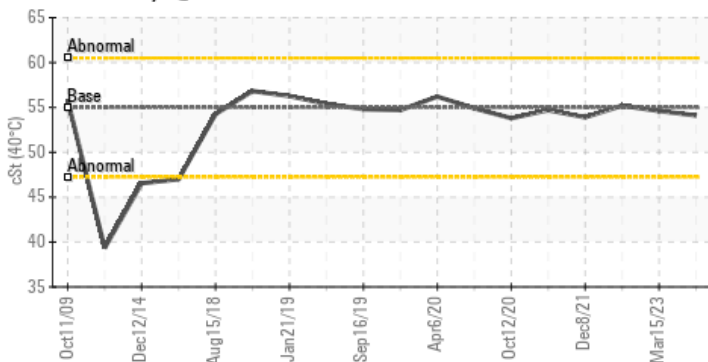
Copper (ppm)



Silicon (ppm)



Viscosity @ 40°C



Additives

