



CONSTRUCTION EQUIPMENT

VOLVO A40G 342374 - WET DISC BRAKE



Sample No: VCP442505
Oil Type: MOBIL MOBILFLUID 424
Job No:



SAMPLE INFORMATION

Sample Number	VCP442505	VCP392510	VCP384378	VCP406822
Sample Date	05 Feb 2024	29 Aug 2023	07 Jun 2023	22 Mar 2023
Machine Hours	11098	10584	10123	9609
Oil Hours	975	731	2120	1606
Oil Changed	Not Chngd	Not Chngd	Changed	Not Chngd
Sample Status	SEVERE	ABNORMAL	ABNORMAL	ABNORMAL

SCHILDBERG CONSTRUCTION COMPANY
 PO BOX 358
 GREENFIELD, IA
 US 50849
 Contact: SCOTT ARMSTRONG
 sarmstrong@schildberg.com
 T: (641)743-8237
 F: (641)743-2486



OIL CONDITION

Visc @ 40°C	cSt	53.4	48.7	47.9	48.0
-------------	-----	-------------	------	------	------



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	▲ 21	▲ 32	▲ 30	■ 18
Sodium	ppm	■ 0	■ 3	■ 7	■ 6
Potassium	ppm	■ 2	■ 2	■ 2	■ 0



WEAR METALS

Iron	ppm	● 377	▲ 104	▲ 105	▲ 46
Copper	ppm	■ 18	■ 160	■ 161	■ 155
Lead	ppm	■ 0	■ 0	■ 0	■ 0
Tin	ppm	■ 0	■ 0	■ 0	■ 0
Aluminum	ppm	■ 2	■ 0	■ 5	■ 3
Chromium	ppm	■ <1	■ <1	■ 1	■ <1
Molybdenum	ppm	■ 1	■ <1	■ <1	■ <1
Nickel	ppm	■ <1	■ 4	■ 5	■ 3
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	■ 1	■ 2	■ 2	■ 2
Vanadium	ppm	0	0	<1	0



ADDITIVES

Calcium	ppm	■ 3474	■ 3075	■ 3117	■ 2773
Magnesium	ppm	■ 15	■ 13	■ 13	■ 12
Zinc	ppm	■ 1358	■ 1267	■ 1390	■ 1213
Phosphorus	ppm	■ 1274	■ 1115	■ 1198	■ 1110
Barium	ppm	■ 12	■ 1	■ 0	■ 0
Boron	ppm	■ 113	■ 82	■ 88	■ 85

Diagnosis

We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. The iron level is severe. Elemental level of silicon (Si) above normal indicating ingress of seal material. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: SCHGRE
Unique No: 10876583
Signed: Jonathan Hester
Report Date: 16 Feb 2024

VOLVO **GRAPHS**

