



CONSTRUCTION EQUIPMENT

SPM595392 WASTE MGMT VOLVO L90H 624824 - REAR AXLE



Sample No: VCP420700
Oil Type: VOLVO WET BRAKE TRANSAXLE OIL
Job No: SPM595392 WASTE MGMT



SAMPLE INFORMATION

Sample Number	VCP420700	VCP399652	VCP399965	VCP404281
Sample Date	12 Sep 2023	08 Aug 2023	07 Jun 2023	18 May 2023
Machine Hours	9830	9594	9431	9211
Oil Hours	0	0	0	0
Oil Changed	Changed	Not Changd	Not Changd	Not Changd
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	43.1	43.6	46.4	44.1
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CONTAMINATION

Silicon	ppm	▲ 194	▲ 223	▲ 191	■ 15
Sodium	ppm	■ 0	■ 1	■ 3	■ 4
Potassium	ppm	■ 2	■ 2	■ 0	■ 0



WEAR METALS

Iron	ppm	■ 85	■ 166	■ 128	■ 52
Copper	ppm	■ 4	■ 5	■ 2	■ 0
Lead	ppm	■ 0	■ <1	■ 0	■ 0
Tin	ppm	■ <1	■ <1	■ <1	■ <1
Aluminum	ppm	■ 4	■ 4	■ 3	■ 1
Chromium	ppm	■ <1	■ 2	■ 1	■ 1
Molybdenum	ppm	■ 2	■ 5	■ 4	■ 1
Nickel	ppm	■ <1	■ <1	■ <1	■ <1
Titanium	ppm	<1	<1	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	■ 1	■ 2	■ 2	■ 2
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	■ 3837	■ 4285	■ 4128	■ 4042
Magnesium	ppm	■ 18	■ 29	■ 31	■ 20
Zinc	ppm	■ 1574	■ 1681	■ 1688	■ 1623
Phosphorus	ppm	■ 1302	■ 1355	■ 1315	■ 1276
Barium	ppm	■ 0	■ 0	■ 0	■ 0
Boron	ppm	■ 125	■ 154	■ 133	■ 123

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. All component wear rates are normal. Elemental level of silicon (Si) above normal indicating ingress of seal material. The condition of the oil is acceptable for the time in service.

Depot: VOLVO8885
Unique No: 10658489
Signed: Don Baldrige
Report Date: 22 Sep 2023



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VOLVO GRAPHS

