



CONSTRUCTION EQUIPMENT

SPM593757 WM HODGKIN VOLVO L90H 624824 - REAR AXLE



Sample No: VCP399652
Oil Type: VOLVO WET BRAKE TRANSAXLE OIL
Job No: SPM593757 WM HODGKIN



SAMPLE INFORMATION

Sample Number	VCP399652	VCP399965	VCP404281	VCP404947
Sample Date	08 Aug 2023	07 Jun 2023	18 May 2023	08 May 2023
Machine Hours	9594	9431	9211	9062
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Not Chngd
Sample Status	ABNORMAL	ABNORMAL	NORMAL	SEVERE

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OIL CONDITION

Visc @ 40°C	cSt	43.6	46.4	44.1	43.8
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CONTAMINATION

Silicon	ppm	▲ 223	▲ 191	■ 15	● 222
Sodium	ppm	■ 1	■ 3	■ 4	■ 2
Potassium	ppm	■ 2	■ 0	■ 0	■ 2



WEAR METALS

Iron	ppm	■ 166	■ 128	■ 52	■ 107
Copper	ppm	■ 5	■ 2	■ 0	■ 3
Lead	ppm	■ <1	■ 0	■ 0	■ 0
Tin	ppm	■ <1	■ <1	■ <1	■ <1
Aluminum	ppm	■ 4	■ 3	■ 1	■ 4
Chromium	ppm	■ 2	■ 1	■ 1	■ 1
Molybdenum	ppm	■ 5	■ 4	■ 1	■ 4
Nickel	ppm	■ <1	■ <1	■ <1	■ 1
Titanium	ppm	<1	<1	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	■ 2	■ 2	■ 2	■ 2
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	■ 4285	■ 4128	■ 4042	■ 4843
Magnesium	ppm	■ 29	■ 31	■ 20	■ 34
Zinc	ppm	■ 1681	■ 1688	■ 1623	1950
Phosphorus	ppm	■ 1355	■ 1315	■ 1276	■ 1505
Barium	ppm	■ 0	■ 0	■ 0	■ 0
Boron	ppm	■ 154	■ 133	■ 123	■ 162

Diagnosis

No corrective action is recommended at this time. We recommend an early resample to monitor this condition. 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: 10616411
Signed: Don Baldrige
Report Date: 23 Aug 2023



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VOLVO GRAPHS

