



CONSTRUCTION EQUIPMENT

620458 ATLAS ORG VOLVO L90H 623733 - REAR AXLE



Sample No: VCP440990
Oil Type: VOLVO PREMIUM GEAR OIL 80W-90 GL-5
Job No: 620458 ATLAS ORG



SAMPLE INFORMATION

Sample Number	VCP440990	VCP425451	VCP393556	VCP357429
Sample Date	12 Oct 2023	24 Jun 2023	28 Mar 2023	14 Apr 2022
Machine Hours	7240	6673	11120	9196
Oil Hours	0	0	2000	2000
Oil Changed	Not Changed	Changed	Not Changed	Changed
Sample Status	ATTENTION	ABNORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	▲ 41.6	■ 39.9	■ 47.8	■ 47.4
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CONTAMINATION

Silicon	ppm	■ 17	■ 19	■ 18	■ 15
Sodium	ppm	■ 3	■ 7	■ 5	■ 7
Potassium	ppm	■ 0	■ 3	■ 2	■ 0



WEAR METALS

Iron	ppm	■ 76	■ 210	■ 253	■ 175
Copper	ppm	■ 22	▲ 128	■ 33	■ 30
Lead	ppm	■ 0	■ <1	■ <1	■ <1
Tin	ppm	■ 2	■ 16	■ 5	■ 4
Aluminum	ppm	■ 2	■ 3	■ 3	■ 2
Chromium	ppm	■ 2	■ 7	■ 4	■ 3
Molybdenum	ppm	■ 6	■ 5	■ 4	■ 4
Nickel	ppm	■ 0	■ 2	■ 2	■ 1
Titanium	ppm	0	<1	<1	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	■ 3	■ 14	■ 5	■ 4
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	▲ 3498	■ 3993	■ 3561	■ 3377
Magnesium	ppm	■ 51	■ 15	■ 28	■ 30
Zinc	ppm	▲ 1408	■ 1697	■ 1434	■ 1247
Phosphorus	ppm	■ 1160	■ 1361	■ 1421	■ 1302
Barium	ppm	■ 0	■ 0	■ 0	■ 0
Boron	ppm	■ 125	■ 155	■ 167	■ 157

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 oil viscosity is lower than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type.

Depot: VOLVO0096
Unique No: 10698727
Signed: Don Baldrige
Report Date: 19 Oct 2023



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VOLVO GRAPHS

