



CONSTRUCTION EQUIPMENT

SPM661225 VOLVO L350 1138 - FRONT AXLE



Sample No: VCP442825
Oil Type: VOLVO PREMIUM GEAR OIL 80W-90 GL-5
Job No: SPM661225



SAMPLE INFORMATION

Sample Number	VCP442825	VCP439738	VCP351478	VCP395478
Sample Date	30 Jan 2024	04 Oct 2023	11 Aug 2023	25 Apr 2023
Machine Hours	5328	4974	4582	3754
Oil Hours	0	0	0	0
Oil Changed	N/A	N/A	N/A	N/A
Sample Status	ABNORMAL	ATTENTION	ATTENTION	ATTENTION

ALTA EQUIPMENT

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 SYRACUSE, NY
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OIL CONDITION

Visc @ 40°C	cSt	▲ 44.0	▲ 43.1	▲ 43.4	▲ 45.0
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	■ 26	■ 19	■ 19	■ 24
Sodium	ppm	■ 0	■ 2	■ 4	■ 4
Potassium	ppm	■ 2	■ <1	■ <1	■ 0

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. Gear wear is indicated. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. Additive levels indicate the addition of a different brand, or type of oil. Confirm oil type.



WEAR METALS

Iron	ppm	▲ 532	■ 425	■ 385	■ 386
Copper	ppm	■ 11	■ 7	■ 8	■ 6
Lead	ppm	■ 2	■ 1	■ <1	■ 0
Tin	ppm	■ <1	■ 1	■ 1	■ 0
Aluminum	ppm	■ <1	■ 2	■ 3	■ 2
Chromium	ppm	■ 2	■ <1	■ 1	■ 1
Molybdenum	ppm	■ 1	■ 0	■ 0	■ <1
Nickel	ppm	■ <1	■ <1	■ 0	■ 0
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	■ 6	■ 4	■ 4	■ 4
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	▲ 3947	■ 3998	■ 3968	■ 4175
Magnesium	ppm	■ 17	■ 20	■ 16	■ 18
Zinc	ppm	▲ 1828	■ 1677	■ 1683	■ 1674
Phosphorus	ppm	■ 1259	■ 1380	■ 1299	■ 1331
Barium	ppm	■ 0	■ 0	■ 0	■ 0
Boron	ppm	■ 148	■ 126	■ 133	■ 153

Depot: VOLV00142
Unique No: 10860697
Signed: Jonathan Hester
Report Date: 06 Feb 2024



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GRAPHS

