



CONSTRUCTION EQUIPMENT

659877 VOLVO L120H 632860 - REAR AXLE



Sample No: VCP437446
Oil Type: VOLVO PREMIUM GEAR OIL 85W-140 GL-5
Job No: 659877



SAMPLE INFORMATION

Sample Number	VCP437446	VCP432771	VCP424928	VCP397643
Sample Date	15 Jan 2024	06 Sep 2023	06 Jun 2023	08 Feb 2023
Machine Hours	6693	5768	4936	4349
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Not Changd	Changed
Sample Status	ATTENTION	ABNORMAL	NORMAL	NORMAL

ORANGE COUNTY SOLID WASTE
 5901 YOUNG PINE ROAD
 ORLANDO, FL
 US 32829
 Contact: MICHAEL BEEBE
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OIL CONDITION

Visc @ 40°C	cSt	▲ 43.3	■ 46.5	■ 43.7	■ 40.9
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	■ 22	■ 46	■ 43	■ 14
Sodium	ppm	■ 0	■ 3	■ <1	■ 7
Potassium	ppm	■ 2	■ 0	■ 2	■ 0



WEAR METALS

Iron	ppm	■ 275	▲ 590	■ 424	■ 107
Copper	ppm	■ 2	■ <1	■ 1	■ 1
Lead	ppm	■ 0	■ 0	■ 0	■ <1
Tin	ppm	■ 0	■ <1	■ 0	■ <1
Aluminum	ppm	■ 2	■ 5	■ 3	■ 1
Chromium	ppm	■ 2	■ 5	■ 3	■ 2
Molybdenum	ppm	▲ 16	■ 18	■ 15	■ 4
Nickel	ppm	■ <1	■ 3	■ 2	■ <1
Titanium	ppm	0	<1	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	■ 3	■ 10	■ 8	■ 2
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	▲ 3851	■ 4140	■ 4133	■ 3756
Magnesium	ppm	■ 28	■ 23	■ 16	■ 23
Zinc	ppm	▲ 1583	■ 1644	■ 1668	■ 1550
Phosphorus	ppm	▲ 1243	■ 1360	■ 1295	■ 1181
Barium	ppm	■ 3	■ 0	■ 0	■ 0
Boron	ppm	■ 148	■ 119	■ 126	■ 127

Diagnosis

The oil change at the time of sampling has been noted. 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: ORAORL
Unique No: 10836001
Signed: Don Baldrige
Report Date: 21 Jan 2024



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VOLVO GRAPHS

