



CONSTRUCTION EQUIPMENT

339661-10 VOLVO A45G 342461 - FRONT AXLE



Sample No: VCP433477
Oil Type: VOLVO API GL-5 SAE 75W90
Job No: 339661-10



SAMPLE INFORMATION

Sample Number	VCP433477	VCP346591	VCP377744	VCP338608
Sample Date	07 Sep 2023	06 Aug 2022	27 Jun 2022	12 Mar 2022
Machine Hours	9629	7000	6550	6036
Oil Hours	0	0	0	0
Oil Changed	N/A	Not Changd	Not Changd	Changed
Sample Status	ATTENTION	ATTENTION	ATTENTION	NORMAL

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 613 E STEVENSON RD
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OIL CONDITION

Visc @ 40°C	cSt	▲ 42.7	▲ 43.7	▲ 43.0	■ 49.4
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CONTAMINATION

Silicon	ppm	■ 12	■ 11	■ 29	■ 2
Sodium	ppm	■ 8	■ 6	■ 16	■ 0
Potassium	ppm	■ 2	■ 2	■ 3	■ 2



WEAR METALS

Iron	ppm	■ 165	■ 38	■ 108	■ 37
Copper	ppm	■ 1	■ <1	■ 1	■ 3
Lead	ppm	■ 1	■ 0	■ 0	■ 0
Tin	ppm	■ <1	■ 0	■ 0	■ 0
Aluminum	ppm	■ 0	■ 2	■ 5	■ 0
Chromium	ppm	■ 2	■ <1	■ 3	■ <1
Molybdenum	ppm	■ <1	■ <1	■ 2	■ <1
Nickel	ppm	■ <1	■ 0	■ 0	■ 0
Titanium	ppm	0	<1	<1	0
Silver	ppm	0	0	<1	0
Manganese	ppm	■ 4	■ 2	■ 5	■ <1
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	▲ 3980	▲ 3878	■ 7442	■ 177
Magnesium	ppm	■ 17	■ 14	■ 28	■ 1
Zinc	ppm	▲ 1540	▲ 1569	■ 2917	■ 76
Phosphorus	ppm	■ 1319	■ 1303	■ 2397	■ 2473
Barium	ppm	■ 0	■ <1	■ 0	■ 0
Boron	ppm	■ 158	■ 146	■ 259	■ 281

Diagnosis

No corrective action is recommended at this time. 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. Additive levels indicate the addition of a different brand, or type of oil. Confirm oil type.

Depot: VOLVO5055
Unique No: 10646485
Signed: Jonathan Hester
Report Date: 18 Sep 2023



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GRAPHS

