



CONSTRUCTION EQUIPMENT

622085 VOLVO A40G 35285 I - FRONT AXLE



Sample No: VCP429372
Oil Type: VOLVO PREMIUM GEAR OIL 85W-140 GL-5
Job No: 622085



SAMPLE INFORMATION

Sample Number	VCP429372	VCP420262	VCP385546	VCP362326
Sample Date	06 Nov 2023	12 Apr 2023	07 Oct 2022	17 Mar 2022
Machine Hours	4099	3090	2036	1095
Oil Hours	3000	2090	1500	1095
Oil Changed	Changed	Not Chngd	Not Chngd	Changed
Sample Status	ATTENTION	ATTENTION	NORMAL	NORMAL

RIPA AND ASSOCIATES

10149 FISHER AVENUE
TAMPA, FL
US 33619
Contact: PM Services
PMServices@ripaconstruction.com
T:
F:



OIL CONDITION

Visc @ 40°C	cSt	▲ 54.6	▲ 55.9	■ 55.3	■ 43.7
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	■ 2	■ 1	■ 3	■ 3
Sodium	ppm	■ 1	■ 1	■ 0	■ 1
Potassium	ppm	■ 3	■ <1	■ 2	■ 3



WEAR METALS

Iron	ppm	■ 181	■ 142	■ 115	■ 176
Copper	ppm	■ 1	■ <1	■ 1	■ <1
Lead	ppm	■ 0	■ 0	■ 0	■ 0
Tin	ppm	■ <1	■ 0	■ 0	■ <1
Aluminum	ppm	■ <1	■ <1	■ <1	■ <1
Chromium	ppm	■ 2	■ 2	■ 2	■ 2
Molybdenum	ppm	■ 1	■ 2	■ 1	■ 2
Nickel	ppm	■ <1	■ <1	■ 0	■ <1
Titanium	ppm	■ 0	■ 0	■ 0	■ 0
Silver	ppm	■ 0	■ 0	■ 0	■ 0
Manganese	ppm	■ 5	■ 5	■ 4	■ 8
Vanadium	ppm	■ <1	■ 0	■ <1	■ 0



ADDITIVES

Calcium	ppm	■ 10	■ 37	■ 47	■ 16
Magnesium	ppm	■ <1	■ 1	■ 2	■ 0
Zinc	ppm	■ 10	■ 27	■ 29	■ 12
Phosphorus	ppm	■ 2158	■ 2386	■ 2403	■ 2403
Barium	ppm	■ 0	■ 0	■ 0	■ 0
Boron	ppm	■ 148	■ 266	■ 265	■ 256

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. Confirm oil type.

Depot: RIPTAM
Unique No: 10765287
Signed: Don Baldrige
Report Date: 03 Dec 2023



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GRAPHS

