



CONSTRUCTION EQUIPMENT

580547 VOLVO A40G 3525 13 - FRONT AXLE



Sample No: VCP422942
Oil Type: VOLVO PREMIUM GEAR OIL 85W-140 GL-5
Job No: 580547



SAMPLE INFORMATION

Sample Number	VCP422942	VCP390676	VCP360243	VCP337029
Sample Date	31 Jul 2023	26 Sep 2022	16 Mar 2022	18 Aug 2021
Machine Hours	5166	3603	2597	1430
Oil Hours	2000	500	1597	1500
Oil Changed	Changed	Not Changd	Changed	Not Changd
Sample Status	NORMAL	ATTENTION	NORMAL	SEVERE

RIPA AND ASSOCIATES

10149 FISHER AVENUE
TAMPA, FL
US 33619
Contact: ROBERT TURNER
rturner@ripatampa.com
T:
F:



OIL CONDITION

Visc @ 40°C	cSt	72.8	▲ 83.5	51.4	▲ 41.3
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CONTAMINATION

Water	%	---	---	---	▲ 0.864
Silicon	ppm	■ 3	■ 2	■ 3	■ 368
Sodium	ppm	■ 0	■ 0	■ 2	■ 4
Potassium	ppm	■ <1	■ 0	■ 2	■ 1



WEAR METALS

Iron	ppm	■ 142	■ 37	■ 375	▲ 990
Copper	ppm	■ 4	■ 1	■ 3	■ 3
Lead	ppm	■ <1	■ 0	■ 0	■ <1
Tin	ppm	■ 0	■ 0	■ 0	■ <1
Aluminum	ppm	■ <1	■ <1	■ <1	▲ 11
Chromium	ppm	■ 2	■ <1	■ 4	■ 12
Molybdenum	ppm	■ <1	■ <1	■ 2	■ 3
Nickel	ppm	■ 1	■ 0	■ 1	■ 6
Titanium	ppm	0	0	0	2
Silver	ppm	0	0	<1	<1
Manganese	ppm	■ 2	■ 2	■ 14	■ 8
Vanadium	ppm	0	0	0	<1



ADDITIVES

Calcium	ppm	■ 93	■ 24	■ 23	▲ 3970
Magnesium	ppm	■ 3	■ 1	■ 1	■ 20
Zinc	ppm	■ 51	■ 25	■ 14	▲ 1526
Phosphorus	ppm	■ 1971	1814	2626	■ 1311
Barium	ppm	■ 1	■ 0	■ 0	■ 0
Boron	ppm	■ 262	■ 246	■ 163	■ 185

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 condition of the oil is acceptable for the time in service.

Depot: RIPTAM
Unique No: 10602484
Signed: Sean Felton
Report Date: 14 Aug 2023



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GRAPHS

