



CONSTRUCTION EQUIPMENT

567604 VOLVO A40G 342177 - DROP BOX



Sample No: VCP424431
Oil Type: VOLVO PREMIUM GEAR OIL 85W-140 GL-5
Job No: 567604



SAMPLE INFORMATION

Sample Number	VCP424431	VCP358219	VCP312772	VCP316774
Sample Date	29 Jun 2023	19 Sep 2022	02 Mar 2022	31 Aug 2021
Machine Hours	10619	9334	8227	7246
Oil Hours	2000	500	1500	1000
Oil Changed	Not Chngd	Not Chngd	Changed	Not Chngd
Sample Status	ABNORMAL	ATTENTION	NORMAL	NORMAL

RIPA AND ASSOCIATES

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



OIL CONDITION

Visc @ 40°C	cSt	▲ 52.26	▲ 302	■ 207	■ 206
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CONTAMINATION

Silicon	ppm	▲ 53	■ 7	■ 15	■ 25
Sodium	ppm	■ <1	■ 0	■ 1	■ 2
Potassium	ppm	■ 0	■ 1	■ 1	■ 1



WEAR METALS

Iron	ppm	▲ 501	■ 43	■ 68	■ 26
Copper	ppm	■ <1	■ <1	■ 3	■ 3
Lead	ppm	■ 0	■ 0	■ 0	■ 1
Tin	ppm	■ 0	■ <1	■ 0	■ 0
Aluminum	ppm	■ 8	■ 16	■ 20	■ 20
Chromium	ppm	■ 5	■ <1	■ 1	■ <1
Molybdenum	ppm	■ 3	■ 4	■ 11	■ 4
Nickel	ppm	■ <1	■ 0	■ 0	■ <1
Titanium	ppm	<1	0	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	■ 6	■ 2	■ 4	■ <1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	■ 78	■ 34	■ 80	■ 44
Magnesium	ppm	■ 2	■ 6	■ 23	■ 14
Zinc	ppm	■ 203	■ 81	200	■ 65
Phosphorus	ppm	1735	■ 1001	■ 1260	■ 959
Barium	ppm	■ 0	■ 0	■ 0	■ 0
Boron	ppm	■ 129	■ 184	■ 143	■ 159

Diagnosis

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor. Gear wear is indicated. Elemental level of silicon (Si) above normal indicating ingress of seal material. The oil viscosity is lower than normal. Confirm oil type.

Depot: RIPTAM
Unique No: 10574639
Signed: Doug Bogart
Report Date: 01 Aug 2023



CONSTRUCTION EQUIPMENT



VOLVO GRAPHS

