



CONSTRUCTION EQUIPMENT

729036 VOLVO A40G 342177 - DROP BOX



Sample No: VCP439771
Oil Type: VOLVO PREMIUM GEAR OIL 85W-140 GL-5
Job No: 729036



SAMPLE INFORMATION

Sample Number	VCP439771	VCP424431	VCP358219	VCP312772
Sample Date	06 Jun 2024	29 Jun 2023	19 Sep 2022	02 Mar 2022
Machine Hours	11658	10619	9334	8227
Oil Hours	3000	2000	500	1500
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Changed
Sample Status	SEVERE	ABNORMAL	ATTENTION	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	54.3	52.26	302	207
-------------	-----	-------------	-------	-----	-----



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	▲ 76	▲ 53	■ 7	■ 15
Sodium	ppm	■ 1	■ <1	■ 0	■ 1
Potassium	ppm	■ 3	■ 0	■ 1	■ 1



WEAR METALS

Iron	ppm	▲ 1408	▲ 501	■ 43	■ 68
Copper	ppm	■ 5	■ <1	■ <1	■ 3
Lead	ppm	■ <1	■ 0	■ 0	■ 0
Tin	ppm	■ 0	■ 0	■ <1	■ 0
Aluminum	ppm	● 9	■ 8	■ 16	■ 20
Chromium	ppm	■ 14	■ 5	■ <1	■ 1
Molybdenum	ppm	■ 4	■ 3	■ 4	■ 11
Nickel	ppm	■ 2	■ <1	■ 0	■ 0
Titanium	ppm	<1	<1	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	■ 12	■ 6	■ 2	■ 4
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	■ 34	■ 78	■ 34	■ 80
Magnesium	ppm	■ 2	■ 2	■ 6	■ 23
Zinc	ppm	■ 214	■ 203	■ 81	200
Phosphorus	ppm	1582	1735	■ 1001	■ 1260
Barium	ppm	■ 0	■ 0	■ 0	■ 0
Boron	ppm	■ 111	■ 129	■ 184	■ 143

Diagnosis

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. Moderate concentration of visible dirt/debris present in the oil. The oil viscosity is lower than normal. Confirm oil type. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: RIPTAM
Unique No: 11127028
Signed: Sean Felton
Report Date: 18 Jul 2024



CONSTRUCTION EQUIPMENT



VOLVO GRAPHS

