



CONSTRUCTION EQUIPMENT

662078 VOLVO A30F 82303 - FRONT AXLE



Sample No: VCP441651
Oil Type: VOLVO PREMIUM GEAR OIL 85W-140 GL-5
Job No: 662078



SAMPLE INFORMATION

Sample Number	VCP441651	VCP390290	VCP266225	VCP177216
Sample Date	02 Feb 2024	28 Dec 2022	25 Apr 2020	01 Apr 2016
Machine Hours	12787	11500	10182	4143
Oil Hours	4000	1500	2000	0
Oil Changed	Changed	Not Chngd	Changed	Changed
Sample Status	SEVERE	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	▲ 457	▲ 288	■ 268	218.3
-------------	-----	--------------	-------	-------	-------



CONTAMINATION

Water	%	◆ 13.5	NEG	NEG	NEG
Silicon	ppm	■ 20	■ 21	■ 30	■ 5
Sodium	ppm	■ 0	■ 1	■ <1	■ <1
Potassium	ppm	■ 0	■ 0	■ 2	■ <1



WEAR METALS

Iron	ppm	■ 346	■ 119	■ 98	■ 312
Copper	ppm	▲ 45	■ 12	■ 18	■ 20
Lead	ppm	■ 0	■ 0	■ 0	■ <1
Tin	ppm	▲ 6	■ <1	■ 0	■ <1
Aluminum	ppm	■ 2	■ 1	■ 2	■ <1
Chromium	ppm	■ 5	■ 1	■ 1	■ 4
Molybdenum	ppm	■ 0	■ 1	■ <1	0
Nickel	ppm	■ 3	■ <1	■ <1	■ 2
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	■ 4	■ 1	■ <1	4
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	■ 204	■ 218	■ 140	35
Magnesium	ppm	■ 20	■ 11	■ 20	5
Zinc	ppm	■ 124	105	■ 75	33
Phosphorus	ppm	■ 800	■ 891	■ 866	962
Barium	ppm	■ 0	■ 0	■ 0	<1
Boron	ppm	■ 135	■ 153	■ 118	148

Diagnosis

We advise that you check for the source of water entry. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Bearing and/or bushing wear is indicated. Appearance is unacceptable. There is a high concentration of water present in the oil. The oil viscosity is higher than normal. The oil is no longer serviceable due to the presence of contaminants.

Depot: RIPTAM
Unique No: 10887346
Signed: Sean Felton
Report Date: 22 Feb 2024



CONSTRUCTION EQUIPMENT



GRAPHS

