



CONSTRUCTION EQUIPMENT

2673-1 VOLVO A30G 752891 - DIESEL ENGINE



Sample No: VCP441051
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: 2673-1



SAMPLE INFORMATION

Sample Number	VCP441051	---	---	---
Sample Date	20 Dec 2023	---	---	---
Machine Hours	807	---	---	---
Oil Hours	280	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	SEVERE	---	---	---

MCLLUNG-LOGAN EQUIPMENT CO - WISE
 PO BOX 1158
 WISE, VA
 US 24293
 Contact: DANNY BARRINGTON
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 T:
 F:



OIL CONDITION

Visc @ 100°C	cSt	3.2	---	---	---
Base Number (BN)	mg KOH/g	3.9	---	---	---
Oxidation (PA)	%	68	---	---	---



CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	0.1	---	---	---
Nitration (PA)	%	60	---	---	---
Sulfation (PA)	%	50	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	69.8	---	---	---
Silicon	ppm	4	---	---	---
Sodium	ppm	0	---	---	---
Potassium	ppm	1	---	---	---



WEAR METALS

Iron	ppm	5	---	---	---
Copper	ppm	48	---	---	---
Lead	ppm	<1	---	---	---
Tin	ppm	<1	---	---	---
Aluminum	ppm	2	---	---	---
Chromium	ppm	<1	---	---	---
Molybdenum	ppm	15	---	---	---
Nickel	ppm	0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	0	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	562	---	---	---
Magnesium	ppm	146	---	---	---
Zinc	ppm	354	---	---	---
Phosphorus	ppm	352	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	12	---	---	---

Diagnosis

We advise that you check the fuel injection system. The oil is near the end of its useful service life, recommend schedule an oil change. We recommend an early resample to monitor this condition. Metal levels are typical for a new component breaking in. There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil. Visc @ 100°C is severely low. Phosphorus ppm levels are abnormally low. Sulfur ppm levels are abnormally low. Zinc ppm levels are abnormally low. Calcium ppm levels are abnormally low. The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

Depot: VOLVO8881
Unique No: 10806391
Signed: Wes Davis
Report Date: 28 Dec 2023



CONSTRUCTION EQUIPMENT



GRAPHS

