



CONSTRUCTION EQUIPMENT

RENTALS VOLVO A25G 740348 - DIESEL ENGINE



Sample No: VCP440085
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: RENTALS



ALTA EQUIPMENT/FLAGLER CONSTRUCTION EQUIPMENT LLC
 8418 PALM RIVER ROAD
 TAMPA, FL
 US 33619
 Contact: KENNY HANEY
 khaney@flaglerce.com
 T: (813)630-0077
 F: (813)630-2233



SAMPLE INFORMATION

Sample Number	VCP440085	VCP440043	VCP0007705	---
Sample Date	19 Jun 2024	18 Feb 2024	05 May 2023	---
Machine Hours	11853	11358	0	---
Oil Hours	0	0	0	---
Oil Changed	Changed	N/A	N/A	---
Sample Status	SEVERE	SEVERE	NORMAL	---



OIL CONDITION

Visc @ 100°C	cSt	▲ 10.7	▲ 10.0	■ 14.3	---
Base Number (BN)	mg KOH/g	■ 8.9	■ 7.2	■ 7.0	---
Oxidation (PA)	%	77	80	55	---



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	■ 0.1	■ 0.2	■ 0.2	---
Nitration (PA)	%	63	79	70	---
Sulfation (PA)	%	58	57	53	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	▲ 8.0	▲ 9.4	<1.0	---
Silicon	ppm	■ 4	■ 7	■ 8	---
Sodium	ppm	■ 2	■ 3	■ 5	---
Potassium	ppm	■ 0	■ 4	■ 2	---



WEAR METALS

Iron	ppm	■ 4	■ 10	■ 6	---
Copper	ppm	■ <1	■ 6	■ <1	---
Lead	ppm	■ 0	■ <1	■ 0	---
Tin	ppm	■ 0	■ 1	■ <1	---
Aluminum	ppm	■ 2	■ 4	■ 7	---
Chromium	ppm	■ 0	■ <1	■ <1	---
Molybdenum	ppm	■ 38	■ 34	■ 28	---
Nickel	ppm	■ 0	■ <1	■ 0	---
Titanium	ppm	■ <1	■ 6	■ 52	---
Silver	ppm	■ 0	■ 0	■ 0	---
Manganese	ppm	■ <1	■ <1	■ <1	---
Vanadium	ppm	<1	<1	0	---



ADDITIVES

Calcium	ppm	■ 1664	■ 1354	■ 1612	---
Magnesium	ppm	■ 474	■ 443	■ 458	---
Zinc	ppm	■ 1063	■ 992	■ 1097	---
Phosphorus	ppm	■ 928	■ 824	■ 893	---
Barium	ppm	■ 0	■ 1	■ 0	---
Boron	ppm	■ 35	■ 35	■ 101	---

Diagnosis

We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil. 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: VOLVO0093
Unique No: 11090618
Signed: Wes Davis
Report Date: 26 Jun 2024

Submitted By: TECHNICIAN ACCOUNT



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GRAPHS

