



CONSTRUCTION EQUIPMENT

VOLVO L90H 626602 - DIESEL ENGINE



Sample No: VCP454111
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



ALTA EQUIPMENT/FLAGLER EQUIPMENT LLC
 9601 BOGGY CREEK RD
 ORLANDO, FL
 US 32824
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SAMPLE INFORMATION

Sample Number	VCP454111	---	---	---
Sample Date	13 Feb 2024	---	---	---
Machine Hours	398	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---



OIL CONDITION

Visc @ 100°C	cSt	█ 12.9	---	---	---
Base Number (BN)	mg KOH/g	█ 9.6	---	---	---
Oxidation (PA)	%	74	---	---	---



CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.2	---	---	---
Nitration (PA)	%	58	---	---	---
Sulfation (PA)	%	59	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 22	---	---	---
Sodium	ppm	█ 5	---	---	---
Potassium	ppm	█ 3	---	---	---



WEAR METALS

Iron	ppm	█ 33	---	---	---
Copper	ppm	█ 11	---	---	---
Lead	ppm	█ 1	---	---	---
Tin	ppm	█ 3	---	---	---
Aluminum	ppm	▲ 50	---	---	---
Chromium	ppm	█ 4	---	---	---
Molybdenum	ppm	█ 63	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 5	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	█ 1962	---	---	---
Magnesium	ppm	█ 730	---	---	---
Zinc	ppm	█ 1526	---	---	---
Phosphorus	ppm	█ 1358	---	---	---
Barium	ppm	█ 14	---	---	---
Boron	ppm	█ 126	---	---	---

Diagnosis

The oil change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. The aluminum level is abnormal. All other component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

Depot: VOLVO0096
Unique No: 10885603
Signed: Don Baldrige
Report Date: 20 Feb 2024



CONSTRUCTION EQUIPMENT



GRAPHS

