



CONSTRUCTION EQUIPMENT

VOLVO L60H 6223 10 - DIESEL ENGINE



Sample No: VCP444389
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP444389	VCP449201	---	---
Sample Date	24 May 2024	03 Jan 2024	---	---
Machine Hours	7951	7628	---	---
Oil Hours	0	1000	---	---
Oil Changed	N/A	Changed	---	---
Sample Status	SEVERE	NORMAL	---	---

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OIL CONDITION

Visc @ 100°C	cSt	▲ 7.4	■ 13.1	---	---
Base Number (BN)	mg KOH/g	■ 8.9	■ 6.9	---	---
Oxidation (PA)	%	63	87	---	---

Diagnosis

We advise that you check the fuel injection system. We recommend that you drain the oil from the component if this has not already been done. 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.



CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	■ 0.2	■ 0.8	---	---
Nitration (PA)	%	58	95	---	---
Sulfation (PA)	%	52	66	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	▲ 21.8	<1.0	---	---
Silicon	ppm	■ 7	■ 7	---	---
Sodium	ppm	■ 2	■ 2	---	---
Potassium	ppm	■ 2	■ 2	---	---



WEAR METALS

Iron	ppm	■ 14	■ 25	---	---
Copper	ppm	■ 2	■ 2	---	---
Lead	ppm	■ <1	■ <1	---	---
Tin	ppm	■ 1	■ <1	---	---
Aluminum	ppm	■ 5	■ 12	---	---
Chromium	ppm	■ 1	■ 1	---	---
Molybdenum	ppm	■ 37	■ 65	---	---
Nickel	ppm	■ <1	■ <1	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	■ 1	■ 0	---	---
Manganese	ppm	■ <1	■ <1	---	---
Vanadium	ppm	<1	0	---	---



ADDITIVES

Calcium	ppm	1210	■ 964	---	---
Magnesium	ppm	■ 458	■ 929	---	---
Zinc	ppm	■ 877	■ 1187	---	---
Phosphorus	ppm	■ 730	■ 1051	---	---
Barium	ppm	■ <1	■ 10	---	---
Boron	ppm	■ 29	■ 11	---	---

Depot: VOLVO0093
Unique No: 11048578
Signed: Wes Davis
Report Date: 30 May 2024



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GRAPHS

