



CONSTRUCTION EQUIPMENT

41487 VOLVO A60H 350231 - DIESEL ENGINE



Sample No: VCP449925
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 41487



SAMPLE INFORMATION

Sample Number	VCP449925	VCP415528	---	---
Sample Date	12 Apr 2024	20 Mar 2024	---	---
Machine Hours	613	612	---	---
Oil Hours	1	0	---	---
Oil Changed	Not Chngd	Not Chngd	---	---
Sample Status	ABNORMAL	SEVERE	---	---

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OIL CONDITION

Visc @ 100°C	cSt	▲ 10.3	▲ 5.2	---	---
Base Number (BN)	mg KOH/g	■ 10.3	■ 7.3	---	---
Oxidation (PA)	%	71	54	---	---

Diagnosis

We advise that you check the fuel injection system. 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. Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.



CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	■ 0.1	■ 0.1	---	---
Nitration (PA)	%	42	52	---	---
Sulfation (PA)	%	57	48	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	▲ 9.1	▲ 39.6	---	---
Silicon	ppm	■ 8	■ 9	---	---
Sodium	ppm	■ 2	■ 1	---	---
Potassium	ppm	■ <1	■ 0	---	---



WEAR METALS

Iron	ppm	■ 4	■ 7	---	---
Copper	ppm	■ <1	■ 2	---	---
Lead	ppm	■ 0	■ <1	---	---
Tin	ppm	■ <1	■ 0	---	---
Aluminum	ppm	■ <1	■ 1	---	---
Chromium	ppm	■ 0	■ <1	---	---
Molybdenum	ppm	■ 32	■ 24	---	---
Nickel	ppm	■ 2	■ 8	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	■ 0	■ 0	---	---
Manganese	ppm	■ <1	■ <1	---	---
Vanadium	ppm	0	<1	---	---



ADDITIVES

Calcium	ppm	■ 1507	1045	---	---
Magnesium	ppm	■ 438	■ 297	---	---
Zinc	ppm	■ 989	632	---	---
Phosphorus	ppm	■ 803	555	---	---
Barium	ppm	■ 0	■ 0	---	---
Boron	ppm	■ 60	■ 35	---	---

Depot: LANNOR
Unique No: 10980226
Signed: Jonathan Hester
Report Date: 22 Apr 2024



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GRAPHS

