



CONSTRUCTION EQUIPMENT

X18052 IAA VOLVO L90H 625476 - DIESEL ENGINE



Sample No: VCP433782
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: X18052 IAA



SAMPLE INFORMATION

Sample Number	VCP433782	VCE64897D	VCE043671	---
Sample Date	29 Nov 2023	07 Aug 2023	10 Jan 2022	---
Machine Hours	3516	3022	1600	---
Oil Hours	0	0	500	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	ATTENTION	NORMAL	NORMAL	---

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OIL CONDITION

Visc @ 100°C	cSt	▲ 11.4	■ 13.0	■ 12.8	---
Base Number (BN)	mg KOH/g	■ 11.7	■ 10.0	■ 10.9	---
Oxidation (PA)	%	84	77	85	---

Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	■ 0.3	■ 0.4	■ 0.8	---
Nitration (PA)	%	73	62	72	---
Sulfation (PA)	%	57	60	66	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	■ 2.2	<1.0	<1.0	---
Silicon	ppm	■ 6	■ 6	■ 7	---
Sodium	ppm	■ <1	■ 2	■ 2	---
Potassium	ppm	■ 1	■ <1	■ 0	---



WEAR METALS

Iron	ppm	■ 10	■ 20	■ 23	---
Copper	ppm	■ <1	■ 1	■ 2	---
Lead	ppm	■ 0	■ 0	■ 0	---
Tin	ppm	■ <1	■ <1	■ <1	---
Aluminum	ppm	■ 6	■ 14	■ 5	---
Chromium	ppm	■ <1	■ <1	■ 1	---
Molybdenum	ppm	■ 41	■ 41	■ 37	---
Nickel	ppm	■ <1	■ 0	■ 0	---
Titanium	ppm	0	<1	<1	---
Silver	ppm	■ 0	■ 0	■ 0	---
Manganese	ppm	■ <1	■ <1	■ <1	---
Vanadium	ppm	0	<1	0	---



ADDITIVES

Calcium	ppm	■ 1648	■ 1822	■ 1507	---
Magnesium	ppm	■ 475	■ 531	■ 444	---
Zinc	ppm	■ 1098	■ 1195	■ 1063	---
Phosphorus	ppm	■ 884	■ 945	■ 854	---
Barium	ppm	■ 2	■ 0	■ 0	---
Boron	ppm	■ 34	■ 35	■ 25	---

Depot: VOLVO8771
Unique No: 10767949
Signed: Jonathan Hester
Report Date: 08 Dec 2023



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GRAPHS

