



CONSTRUCTION EQUIPMENT

SPM634850-10 VOLVO A45G 353273 - DIESEL ENGINE



Sample No: VCP422310
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SPM634850-10



SAMPLE INFORMATION

Sample Number	VCP422310	VCP426566	---	---
Sample Date	01 Dec 2023	24 Aug 2023	---	---
Machine Hours	2581	1911	---	---
Oil Hours	0	0	---	---
Oil Changed	N/A	Changed	---	---
Sample Status	ATTENTION	ABNORMAL	---	---

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OIL CONDITION

Visc @ 100°C	cSt	▲ 12.3	▲ 11.8	---	---
Base Number (BN)	mg KOH/g	■ 9.6	■ 8.5	---	---
Oxidation (PA)	%	79	72	---	---

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. 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	---	---
Soot %	%	■ 0.3	■ 0.4	---	---
Nitration (PA)	%	62	66	---	---
Sulfation (PA)	%	60	58	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	▲ 3.4	---	---
Silicon	ppm	■ 5	■ 6	---	---
Sodium	ppm	■ 2	■ 2	---	---
Potassium	ppm	■ 0	■ <1	---	---



WEAR METALS

Iron	ppm	■ 6	■ 10	---	---
Copper	ppm	■ 3	■ 15	---	---
Lead	ppm	■ <1	■ <1	---	---
Tin	ppm	■ <1	■ 1	---	---
Aluminum	ppm	■ 1	■ 2	---	---
Chromium	ppm	■ <1	■ <1	---	---
Molybdenum	ppm	■ 44	■ 45	---	---
Nickel	ppm	■ 3	■ 2	---	---
Titanium	ppm	<1	0	---	---
Silver	ppm	■ 0	■ 0	---	---
Manganese	ppm	■ 0	■ <1	---	---
Vanadium	ppm	<1	0	---	---



ADDITIVES

Calcium	ppm	■ 1591	■ 1673	---	---
Magnesium	ppm	■ 492	■ 516	---	---
Zinc	ppm	■ 1060	■ 1145	---	---
Phosphorus	ppm	■ 853	■ 909	---	---
Barium	ppm	■ 0	■ 0	---	---
Boron	ppm	■ 29	■ 27	---	---

Depot: VOLVO0090
Unique No: 10776802
Signed: Jonathan Hester
Report Date: 08 Dec 2023



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GRAPHS

