



CONSTRUCTION EQUIPMENT

SPM673900-10 VOLVO L110H 632636 - DIESEL ENGINE



Sample No: VCP437766
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SPM673900-10



SAMPLE INFORMATION

Sample Number	VCP437766	VCP433566	---	---
Sample Date	16 Feb 2024	02 Nov 2023	---	---
Machine Hours	1818	1165	---	---
Oil Hours	0	0	---	---
Oil Changed	N/A	Changed	---	---
Sample Status	ABNORMAL	NORMAL	---	---

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OIL CONDITION

Visc @ 100°C	cSt	█ 12.9	█ 12.5	---	---
Base Number (BN)	mg KOH/g	▲ 3.2	█ 8.8	---	---
Oxidation (PA)	%	76	74	---	---

Diagnosis

The oil is near the end of its useful service life, recommend schedule an oil change. 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 BN level is low. The condition of the oil is acceptable for the time in service.



CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	█ 2.7	█ 0.4	---	---
Nitration (PA)	%	99	65	---	---
Sulfation (PA)	%	82	60	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 6	█ 14	---	---
Sodium	ppm	█ 2	█ 3	---	---
Potassium	ppm	█ 0	█ 2	---	---



WEAR METALS

Iron	ppm	█ 14	█ 28	---	---
Copper	ppm	█ 6	█ 18	---	---
Lead	ppm	█ <1	█ 4	---	---
Tin	ppm	█ <1	█ 3	---	---
Aluminum	ppm	█ 5	█ 14	---	---
Chromium	ppm	█ <1	█ 1	---	---
Molybdenum	ppm	█ 46	█ 47	---	---
Nickel	ppm	█ 0	█ <1	---	---
Titanium	ppm	0	<1	---	---
Silver	ppm	█ 0	█ 1	---	---
Manganese	ppm	█ <1	█ 2	---	---
Vanadium	ppm	0	<1	---	---



ADDITIVES

Calcium	ppm	█ 1762	█ 1606	---	---
Magnesium	ppm	█ 547	█ 604	---	---
Zinc	ppm	█ 1205	█ 1281	---	---
Phosphorus	ppm	█ 994	█ 1004	---	---
Barium	ppm	█ 1	█ 12	---	---
Boron	ppm	█ 43	█ 67	---	---

Depot: VOLVO0090
Unique No: 10887549
Signed: Don Baldrige
Report Date: 22 Feb 2024



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GRAPHS

