



CONSTRUCTION EQUIPMENT

634767 INT TILE VOLVO L45H 4222098 - DIESEL ENGINE



Sample No: VCP440730
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 634767 INT TILE



SAMPLE INFORMATION

Sample Number	VCP440730	VCP382995	---	---
Sample Date	02 Dec 2023	02 Nov 2022	---	---
Machine Hours	2153	971	---	---
Oil Hours	0	0	---	---
Oil Changed	N/A	Changed	---	---
Sample Status	ABNORMAL	ABNORMAL	---	---

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OIL CONDITION

Visc @ 100°C	cSt	█ 13.4	▲ 11.1	---	---
Base Number (BN)	mg KOH/g	█ 8.1	█ 8.9	---	---
Oxidation (PA)	%	96	91	---	---

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Elemental level of silicon (Si) above normal. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.



CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	█ 0.5	█ 0.6	---	---
Nitration (PA)	%	86	88	---	---
Sulfation (PA)	%	66	68	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	█ 0.1	---	---
Silicon	ppm	▲ 23	▲ 39	---	---
Sodium	ppm	█ 4	█ 5	---	---
Potassium	ppm	█ 1	█ 0	---	---



WEAR METALS

Iron	ppm	█ 36	█ 67	---	---
Copper	ppm	█ 6	█ 22	---	---
Lead	ppm	█ <1	█ 3	---	---
Tin	ppm	█ 2	█ 6	---	---
Aluminum	ppm	█ 5	█ 11	---	---
Chromium	ppm	█ 1	█ 3	---	---
Molybdenum	ppm	█ 48	█ 37	---	---
Nickel	ppm	█ <1	█ 0	---	---
Titanium	ppm	0	<1	---	---
Silver	ppm	█ 0	0	---	---
Manganese	ppm	█ <1	█ 6	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	█ 1798	█ 1498	---	---
Magnesium	ppm	█ 586	█ 582	---	---
Zinc	ppm	█ 1246	█ 1099	---	---
Phosphorus	ppm	█ 944	█ 905	---	---
Barium	ppm	█ 0	█ <1	---	---
Boron	ppm	█ 16	█ 21	---	---

Depot: VOLVO0096
Unique No: 10780123
Signed: Don Baldrige
Report Date: 13 Dec 2023



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GRAPHS

