



CONSTRUCTION EQUIPMENT

W0230350 VOLVO L90H 627199 - DIESEL ENGINE



Sample No: VCP440998
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: W0230350



SAMPLE INFORMATION

Sample Number	VCP440998	---	---	---
Sample Date	09 Apr 2024	---	---	---
Machine Hours	0	---	---	---
Oil Hours	860	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

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1350 NE LOOP 820
FORT WORTH, TX
US 76106
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OIL CONDITION

Visc @ 100°C	cSt	█ 13.0	---	---	---
Base Number (BN)	mg KOH/g	█ 9.6	---	---	---
Oxidation (PA)	%	78	---	---	---

Diagnosis

The oil change at the time of sampling has been noted. 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 indicating ingress of dirt/seal material. 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	---	---	---
Soot %	%	█ 0.9	---	---	---
Nitration (PA)	%	73	---	---	---
Sulfation (PA)	%	63	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	▲ 21	---	---	---
Sodium	ppm	█ 3	---	---	---
Potassium	ppm	█ 2	---	---	---



WEAR METALS

Iron	ppm	█ 44	---	---	---
Copper	ppm	█ 8	---	---	---
Lead	ppm	█ 2	---	---	---
Tin	ppm	█ 4	---	---	---
Aluminum	ppm	█ 12	---	---	---
Chromium	ppm	█ 4	---	---	---
Molybdenum	ppm	█ 58	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	█ <1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 4	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	█ 1631	---	---	---
Magnesium	ppm	█ 639	---	---	---
Zinc	ppm	█ 1139	---	---	---
Phosphorus	ppm	█ 964	---	---	---
Barium	ppm	█ 8	---	---	---
Boron	ppm	█ 79	---	---	---

Depot: VOLVO0081
Unique No: 10979832
Signed: Don Baldrige
Report Date: 18 Apr 2024



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GRAPHS

