



CONSTRUCTION EQUIPMENT

X48885 VOLVO L120H 633315 - DIESEL ENGINE



Sample No: VCP442698
Oil Type: VOLVO VDS-4.5 Premium Motor Oil 15W40
Job No: X48885



SAMPLE INFORMATION

Sample Number	VCP442698	---	---	---
Sample Date	24 Apr 2024	---	---	---
Machine Hours	505	---	---	---
Oil Hours	505	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

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OIL CONDITION

Visc @ 100°C	cSt	█ 12.4	---	---	---
Base Number (BN)	mg KOH/g	█ 9.6	---	---	---
Oxidation (PA)	%	73	---	---	---

CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.2	---	---	---
Nitration (PA)	%	53	---	---	---
Sulfation (PA)	%	59	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 14	---	---	---
Sodium	ppm	█ 4	---	---	---
Potassium	ppm	█ 4	---	---	---

Diagnosis

Oil and filter 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. The aluminum level is abnormal. All other metal levels are typical for a new component breaking in. There is no indication of any contamination in the oil. 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.

WEAR METALS

Iron	ppm	█ 28	---	---	---
Copper	ppm	█ 12	---	---	---
Lead	ppm	█ 3	---	---	---
Tin	ppm	█ 2	---	---	---
Aluminum	ppm	▲ 64	---	---	---
Chromium	ppm	█ 4	---	---	---
Molybdenum	ppm	█ 38	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	█ <1	---	---	---
Manganese	ppm	█ 2	---	---	---
Vanadium	ppm	<1	---	---	---

ADDITIVES

Calcium	ppm	█ 1445	---	---	---
Magnesium	ppm	█ 584	---	---	---
Zinc	ppm	█ 1104	---	---	---
Phosphorus	ppm	█ 971	---	---	---
Barium	ppm	█ 9	---	---	---
Boron	ppm	█ 57	---	---	---

Depot: VOLVO6244
Unique No: 11004807
Signed: Don Baldrige
Report Date: 01 May 2024



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GRAPHS

