



CONSTRUCTION EQUIPMENT

X14062 VOLVO L120H 633488 - DIESEL ENGINE



Sample No: VCP399011
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: X14062



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SAMPLE INFORMATION

Sample Number	VCP399011	---	---	---
Sample Date	12 Apr 2024	---	---	---
Machine Hours	461	---	---	---
Oil Hours	461	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---



OIL CONDITION

Visc @ 100°C	cSt	█ 12.4	---	---	---
Base Number (BN)	mg KOH/g	█ 10.3	---	---	---
Oxidation (PA)	%	73	---	---	---



CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.3	---	---	---
Nitration (PA)	%	53	---	---	---
Sulfation (PA)	%	60	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 15	---	---	---
Sodium	ppm	█ 6	---	---	---
Potassium	ppm	█ 5	---	---	---



WEAR METALS

Iron	ppm	█ 24	---	---	---
Copper	ppm	█ 16	---	---	---
Lead	ppm	█ 3	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	▲ 34	---	---	---
Chromium	ppm	█ 2	---	---	---
Molybdenum	ppm	█ 34	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	█ <1	---	---	---
Manganese	ppm	█ 2	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	█ 1439	---	---	---
Magnesium	ppm	█ 563	---	---	---
Zinc	ppm	█ 1007	---	---	---
Phosphorus	ppm	█ 897	---	---	---
Barium	ppm	32	---	---	---
Boron	ppm	█ 49	---	---	---

Diagnosis

The oil change at the time of sampling has been noted. 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.

Depot: VOLVO6241
Unique No: 10981645
Signed: Jonathan Hester
Report Date: 19 Apr 2024



CONSTRUCTION EQUIPMENT



GRAPHS

