



CONSTRUCTION EQUIPMENT

9287 VOLVO L110H 632195 - DIESEL ENGINE



Sample No: VCP418312
Oil Type: CHEVRON 15W40
Job No: 9287



SAMPLE INFORMATION

Sample Number	VCP418312	VCP383722	---	---
Sample Date	17 Jul 2023	07 Nov 2022	---	---
Machine Hours	2644	1478	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	ABNORMAL	SEVERE	---	---



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OIL CONDITION

Visc @ 100°C	cSt	█ 13.7	█ 12.8	---	---
Base Number (BN)	mg KOH/g	█ 7.9	█ 9.7	---	---
Oxidation (PA)	%	67	82	---	---



CONTAMINATION

Soot %	%	█ 0.3	█ 0.4	---	---
Nitration (PA)	%	64	73	---	---
Sulfation (PA)	%	60	66	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 7	█ 15	---	---
Sodium	ppm	█ 2	█ 4	---	---
Potassium	ppm	█ 2	█ 1	---	---



WEAR METALS

Iron	ppm	█ 15	█ 42	---	---
Copper	ppm	█ 5	▲ 20	---	---
Lead	ppm	█ <1	█ 4	---	---
Tin	ppm	█ 1	█ 3	---	---
Aluminum	ppm	▲ 18	● 107	---	---
Chromium	ppm	█ 2	█ 8	---	---
Molybdenum	ppm	█ 71	█ 43	---	---
Nickel	ppm	█ <1	█ 0	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	█ <1	█ 1	---	---
Manganese	ppm	█ <1	█ 3	---	---
Vanadium	ppm	<1	0	---	---



ADDITIVES

Calcium	ppm	█ 1671	█ 1571	---	---
Magnesium	ppm	█ 391	█ 588	---	---
Zinc	ppm	█ 1201	█ 1130	---	---
Phosphorus	ppm	█ 973	█ 954	---	---
Barium	ppm	█ 0	█ 8	---	---
Boron	ppm	█ 299	█ 39	---	---

Diagnosis

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. The aluminum level is abnormal. All other component wear rates are normal. 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: PLECLA
Unique No: 10573003
Signed: Sean Felton
Report Date: 27 Jul 2023



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GRAPHS

