



CONSTRUCTION EQUIPMENT

7200 IMERYS REFRAC VOLVO L110H 632520 - DIESEL ENGINE



Sample No: VCP449130
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 7200 IMERYS REFRAC



SAMPLE INFORMATION

Sample Number	VCP449130	VCP422906	---	---
Sample Date	13 Dec 2023	15 Jun 2023	---	---
Machine Hours	1051	485	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	ABNORMAL	ABNORMAL	---	---

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OIL CONDITION

Visc @ 100°C	cSt	█ 13.1	█ 12.7	---	---
Base Number (BN)	mg KOH/g	█ 10.0	█ 10.2	---	---
Oxidation (PA)	%	79	76	---	---

Diagnosis

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 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. Confirm oil type.



CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	█ 0.4	█ 0.4	---	---
Nitration (PA)	%	62	58	---	---
Sulfation (PA)	%	60	61	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 9	█ 14	---	---
Sodium	ppm	█ 2	█ 5	---	---
Potassium	ppm	█ <1	█ 2	---	---



WEAR METALS

Iron	ppm	█ 19	█ 30	---	---
Copper	ppm	█ 5	█ 11	---	---
Lead	ppm	█ <1	█ 2	---	---
Tin	ppm	█ 2	█ 3	---	---
Aluminum	ppm	▲ 14	▲ 60	---	---
Chromium	ppm	█ 2	█ 5	---	---
Molybdenum	ppm	█ 44	█ 43	---	---
Nickel	ppm	█ 0	█ 0	---	---
Titanium	ppm	<1	0	---	---
Silver	ppm	█ <1	█ <1	---	---
Manganese	ppm	█ 1	█ 2	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	█ 1585	█ 1762	---	---
Magnesium	ppm	█ 565	673	---	---
Zinc	ppm	█ 1130	█ 1256	---	---
Phosphorus	ppm	█ 873	█ 1033	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ 35	█ 54	---	---

Depot: ASCMAC
Unique No: 10843969
Signed: Angela Borella
Report Date: 23 Jan 2024



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GRAPHS

