



CONSTRUCTION EQUIPMENT

ASCENDUM MACHINERY 19890 VOLVO L120H RL83 (S/N 633323) - DIESEL ENGINE



Sample No: VCP443110
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 19890



SAMPLE INFORMATION

Sample Number	VCP443110	VCP412186	---	---
Sample Date	14 Oct 2023	23 Jul 2023	---	---
Machine Hours	2347	1560	---	---
Oil Hours	0	1560	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	MARGINAL	SEVERE	---	---

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OIL CONDITION

Visc @ 100°C	cSt	█ 13.6	█ 12.9	---	---
Base Number (BN)	mg KOH/g	█ 8.4	█ 7.5	---	---
Oxidation (PA)	%	63	82	---	---

Diagnosis
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. The aluminum level has decreased, but is still abnormal. 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 suitable for further service.

CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	█ 0.6	█ 0.6	---	---
Nitration (PA)	%	71	83	---	---
Sulfation (PA)	%	55	62	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 12	▲ 22	---	---
Sodium	ppm	█ 2	█ 4	---	---
Potassium	ppm	█ <1	█ 2	---	---

WEAR METALS

Iron	ppm	█ 32	█ 62	---	---
Copper	ppm	█ 12	▲ 38	---	---
Lead	ppm	█ 2	█ 6	---	---
Tin	ppm	█ 2	█ 6	---	---
Aluminum	ppm	▲ 26	█ 110	---	---
Chromium	ppm	█ 2	█ 6	---	---
Molybdenum	ppm	█ 56	█ 38	---	---
Nickel	ppm	█ 0	█ <1	---	---
Titanium	ppm	3	█ 16	---	---
Silver	ppm	█ <1	█ 1	---	---
Manganese	ppm	█ 1	█ 4	---	---
Vanadium	ppm	<1	<1	---	---

ADDITIVES

Calcium	ppm	█ 1196	█ 1704	---	---
Magnesium	ppm	█ 922	█ 661	---	---
Zinc	ppm	█ 1313	█ 1256	---	---
Phosphorus	ppm	█ 967	█ 1013	---	---
Barium	ppm	█ 0	█ 10	---	---
Boron	ppm	█ 4	█ 35	---	---

Depot: HILGREVC
Unique No: 10755212
Signed: Jonathan Hester
Report Date: 27 Nov 2023



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GRAPHS

