



CONSTRUCTION EQUIPMENT

RSO035339 VOLVO L180H 5071 - DIESEL ENGINE



Sample No: VCP415176
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: RSO035339



SAMPLE INFORMATION

Sample Number	VCP415176	VCP421755	---	---
Sample Date	13 Sep 2023	24 Apr 2023	---	---
Machine Hours	3704	3071	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	ABNORMAL	---	---

COWIN EQUIPMENT COMPANY

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 PENSACOLA, FL
 US 32534

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OIL CONDITION

Visc @ 100°C	cSt	█ 12.7	█ 12.4	---	---
Base Number (BN)	mg KOH/g	█ 9.2	█ 8.2	---	---
Oxidation (PA)	%	78	83	---	---

Diagnosis

Resample at the next service interval to monitor. All 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 suitable for further service.



CONTAMINATION

Soot %	%	█ 0.2	█ 0.2	---	---
Nitration (PA)	%	59	73	---	---
Sulfation (PA)	%	60	60	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	█ 1.8	---	---
Silicon	ppm	█ 10	█ 10	---	---
Sodium	ppm	█ 3	█ 2	---	---
Potassium	ppm	█ 2	█ 0	---	---



WEAR METALS

Iron	ppm	█ 11	█ 19	---	---
Copper	ppm	█ 5	█ 12	---	---
Lead	ppm	█ 1	█ 0	---	---
Tin	ppm	█ <1	█ 0	---	---
Aluminum	ppm	█ 6	█ 2	---	---
Chromium	ppm	█ <1	█ 0	---	---
Molybdenum	ppm	█ 59	█ 44	---	---
Nickel	ppm	█ 4	▲ 7	---	---
Titanium	ppm	<1	0	---	---
Silver	ppm	█ 0	█ 0	---	---
Manganese	ppm	█ <1	█ 1	---	---
Vanadium	ppm	<1	0	---	---



ADDITIVES

Calcium	ppm	█ 2237	█ 1661	---	---
Magnesium	ppm	█ 674	█ 549	---	---
Zinc	ppm	█ 1331	█ 1192	---	---
Phosphorus	ppm	█ 1109	█ 954	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ 37	█ 29	---	---

Depot: VOLV08247
Unique No: 10656237
Signed: Wes Davis
Report Date: 20 Sep 2023



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GRAPHS

