



CONSTRUCTION EQUIPMENT

SPM581191 VOLVO L220H 3399 - DIESEL ENGINE



Sample No: VCP420658
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SPM581191



SAMPLE INFORMATION

Sample Number	VCP420658	---	---	---
Sample Date	27 Jul 2023	---	---	---
Machine Hours	1035	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

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5000 INDUSTRIAL HWY
GARY, IN
US 46406
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OIL CONDITION

Visc @ 100°C	cSt	█ 12.7	---	---	---
Base Number (BN)	mg KOH/g	█ 7.0	---	---	---
Oxidation (PA)	%	57	---	---	---

Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. The copper 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 suitable for further service.



CONTAMINATION

Soot %	%	█ 0.2	---	---	---
Nitration (PA)	%	60	---	---	---
Sulfation (PA)	%	53	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 7	---	---	---
Sodium	ppm	█ 2	---	---	---
Potassium	ppm	█ 2	---	---	---



WEAR METALS

Iron	ppm	█ 9	---	---	---
Copper	ppm	▲ 47	---	---	---
Lead	ppm	█ 1	---	---	---
Tin	ppm	█ 2	---	---	---
Aluminum	ppm	█ 2	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 63	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	█ 0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 1	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	█ 1129	---	---	---
Magnesium	ppm	█ 852	---	---	---
Zinc	ppm	█ 1224	---	---	---
Phosphorus	ppm	█ 976	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 16	---	---	---

Depot: VOLVO8885
Unique No: 10601877
Signed: Don Baldrige
Report Date: 12 Aug 2023



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GRAPHS

