



CONSTRUCTION EQUIPMENT

X58776 VOLVO L180H 5662 - DIESEL ENGINE



Sample No: VCP405793
Oil Type: DIESEL ENGINE OIL SAE 30
Job No: X58776



SAMPLE INFORMATION

Sample Number	VCP405793	---	---	---
Sample Date	19 Oct 2023	---	---	---
Machine Hours	472	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	ABNORMAL	---	---	---

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OIL CONDITION

Visc @ 100°C	cSt	█ 11.0	---	---	---
Base Number (BN)	mg KOH/g	█ 5.8	---	---	---
Oxidation (PA)	%	58	---	---	---



CONTAMINATION

Soot %	%	█ 0.1	---	---	---
Nitration (PA)	%	77	---	---	---
Sulfation (PA)	%	53	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	█ 0.5	---	---	---
Silicon	ppm	█ 24	---	---	---
Sodium	ppm	█ 4	---	---	---
Potassium	ppm	█ 6	---	---	---



WEAR METALS

Iron	ppm	█ 10	---	---	---
Copper	ppm	▲ 255	---	---	---
Lead	ppm	█ 2	---	---	---
Tin	ppm	█ 3	---	---	---
Aluminum	ppm	█ 3	---	---	---
Chromium	ppm	█ 0	---	---	---
Molybdenum	ppm	█ 83	---	---	---
Nickel	ppm	█ 1	---	---	---
Titanium	ppm	█ 0	---	---	---
Silver	ppm	█ <1	---	---	---
Manganese	ppm	█ 3	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	█ 2118	---	---	---
Magnesium	ppm	█ 18	---	---	---
Zinc	ppm	█ 1259	---	---	---
Phosphorus	ppm	█ 1035	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 43	---	---	---

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). 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. The condition of the oil is suitable for further service.

Depot: SCOSAI
Unique No: 10708806
Signed: Don Baldrige
Report Date: 25 Oct 2023



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GRAPHS

