



CONSTRUCTION EQUIPMENT

SWA381382 RENTAL JLG 8042 0160101820 - DIESEL ENGINE



Sample No: VCP383080
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SWA381382 RENTAL



SAMPLE INFORMATION

Sample Number	VCP383080	---	---	---
Sample Date	20 Oct 2023	---	---	---
Machine Hours	1234	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

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56195 PONTIAC TRAIL
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US 48165
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OIL CONDITION

Visc @ 100°C	cSt	▲ 11.2	---	---	---
Base Number (BN)	mg KOH/g	■ 4.9	---	---	---
Oxidation (PA)	%	96	---	---	---

Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. Piston and cylinder wear is indicated. Fuel content negligible. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

CONTAMINATION

Soot %	%	■ 0.3	---	---	---
Nitration (PA)	%	93	---	---	---
Sulfation (PA)	%	77	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	■ 0.2	---	---	---
Silicon	ppm	■ 18	---	---	---
Sodium	ppm	■ 9	---	---	---
Potassium	ppm	■ 33	---	---	---

WEAR METALS

Iron	ppm	▲ 114	---	---	---
Copper	ppm	■ 60	---	---	---
Lead	ppm	■ <1	---	---	---
Tin	ppm	■ 1	---	---	---
Aluminum	ppm	▲ 24	---	---	---
Chromium	ppm	■ 3	---	---	---
Molybdenum	ppm	■ 48	---	---	---
Nickel	ppm	■ <1	---	---	---
Titanium	ppm	4	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ 4	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

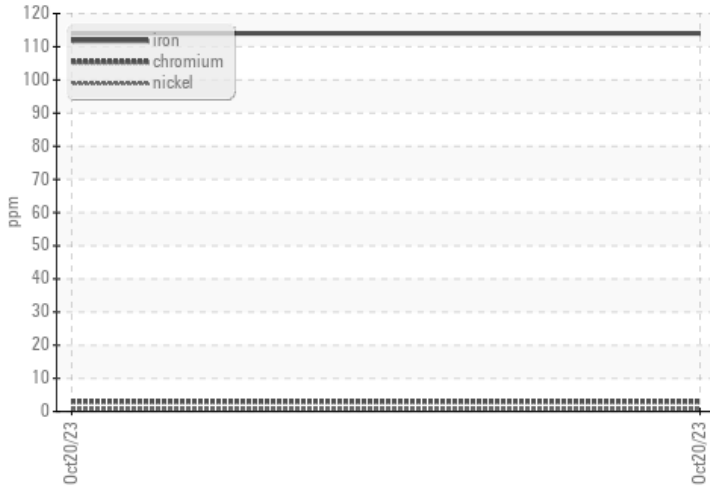
Calcium	ppm	■ 1299	---	---	---
Magnesium	ppm	1063	---	---	---
Zinc	ppm	■ 1330	---	---	---
Phosphorus	ppm	■ 995	---	---	---
Barium	ppm	■ 9	---	---	---
Boron	ppm	■ 19	---	---	---

Depot: VOLVO2990
Unique No: 10724895
Signed: Jonathan Hester
Report Date: 07 Nov 2023

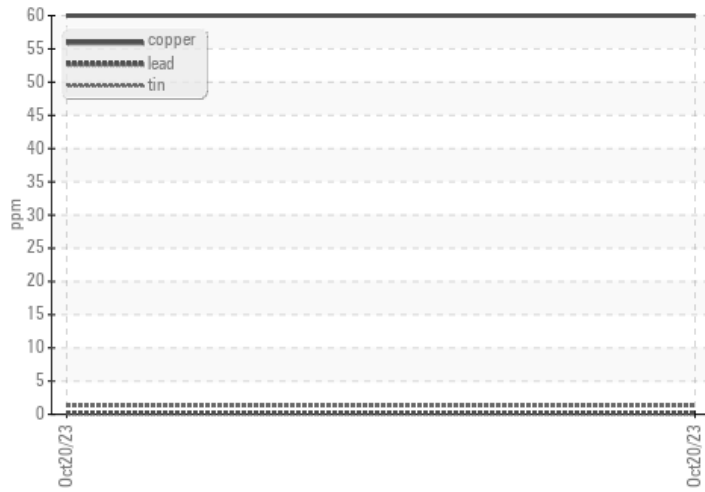


GRAPHS

▲ Ferrous Alloys



Non-ferrous Metals



▲ Viscosity @ 100°C



Base Number

