



CONSTRUCTION EQUIPMENT

688263 R ROTH VOLVO L90H 626374 - DIESEL ENGINE



Sample No: VCP440456
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 688263 R ROTH



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SAMPLE INFORMATION

Sample Number	VCP440456	---	---	---
Sample Date	19 Mar 2024	---	---	---
Machine Hours	1217	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---



OIL CONDITION

Visc @ 100°C	cSt	█ 13.9	---	---	---
Base Number (BN)	mg KOH/g	█ 8.9	---	---	---
Oxidation (PA)	%	63	---	---	---



CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.3	---	---	---
Nitration (PA)	%	63	---	---	---
Sulfation (PA)	%	52	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 17	---	---	---
Sodium	ppm	█ 2	---	---	---
Potassium	ppm	█ 4	---	---	---



WEAR METALS

Iron	ppm	█ 47	---	---	---
Copper	ppm	█ 5	---	---	---
Lead	ppm	█ 4	---	---	---
Tin	ppm	█ 4	---	---	---
Aluminum	ppm	▲ 25	---	---	---
Chromium	ppm	█ 7	---	---	---
Molybdenum	ppm	█ 88	---	---	---
Nickel	ppm	█ 1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	█ <1	---	---	---
Manganese	ppm	█ 2	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	█ 1665	---	---	---
Magnesium	ppm	█ 1417	---	---	---
Zinc	ppm	█ 1854	---	---	---
Phosphorus	ppm	█ 1756	---	---	---
Barium	ppm	█ 2	---	---	---
Boron	ppm	█ 6	---	---	---

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 aluminum 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 acceptable for the time in service.

Depot: VOLVO0093
Unique No: 10941018
Signed: Sean Felton
Report Date: 26 Mar 2024

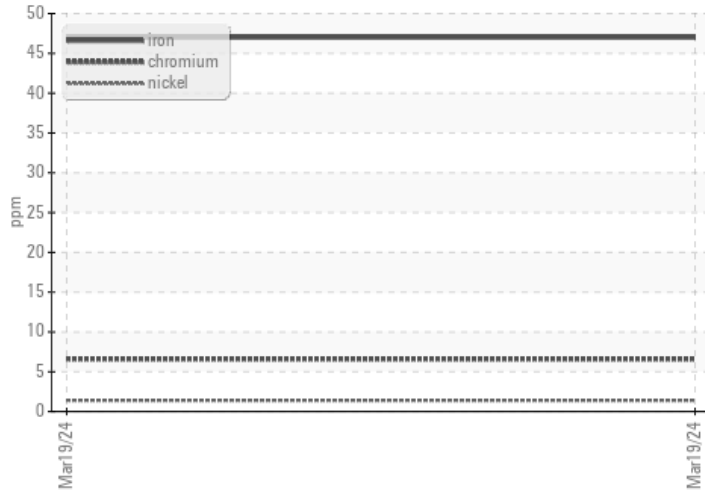


CONSTRUCTION EQUIPMENT

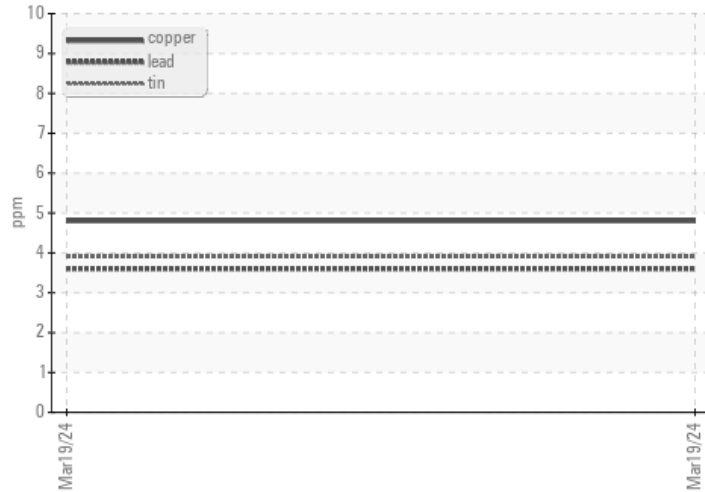


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



Base Number

