



CONSTRUCTION EQUIPMENT

673041 HERC RENTAL VOLVO L70H 623869 - DIESEL ENGINE



Sample No: VCP437090
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 673041 HERC RENTAL



SAMPLE INFORMATION

Sample Number	VCP437090	VCP306626	---	---
Sample Date	08 Apr 2024	26 Feb 2021	---	---
Machine Hours	1659	563	---	---
Oil Hours	250	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	ABNORMAL	NORMAL	---	---

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OIL CONDITION

Visc @ 100°C	cSt	● 11.5	■ 13.6	---	---
Base Number (BN)	mg KOH/g	■ 8.3	---	---	---
Oxidation (PA)	%	46	59	---	---

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. 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

Water	%	NEG	NEG	---	---
Soot %	%	■ 0	■ 0.1	---	---
Nitration (PA)	%	48	43	---	---
Sulfation (PA)	%	48	61	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	■ 0.3	<1.0	---	---
Silicon	ppm	■ 17	■ 7	---	---
Sodium	ppm	■ 2	■ 2	---	---
Potassium	ppm	■ 3	■ <1	---	---



WEAR METALS

Iron	ppm	■ 11	■ 7	---	---
Copper	ppm	■ 2	■ 1	---	---
Lead	ppm	■ 0	■ <1	---	---
Tin	ppm	■ <1	■ <1	---	---
Aluminum	ppm	▲ 13	■ 6	---	---
Chromium	ppm	■ <1	■ <1	---	---
Molybdenum	ppm	■ 29	■ 99	---	---
Nickel	ppm	■ 0	■ 0	---	---
Titanium	ppm	0	<1	---	---
Silver	ppm	■ 0	<1	---	---
Manganese	ppm	■ <1	■ <1	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	■ 1318	■ 1485	---	---
Magnesium	ppm	■ 665	■ 669	---	---
Zinc	ppm	■ 855	■ 838	---	---
Phosphorus	ppm	■ 749	■ 749	---	---
Barium	ppm	■ 0	■ 0	---	---
Boron	ppm	■ 146	■ 299	---	---

Depot: VOLVO0093
Unique No: 11018416
Signed: Don Baldrige
Report Date: 13 May 2024

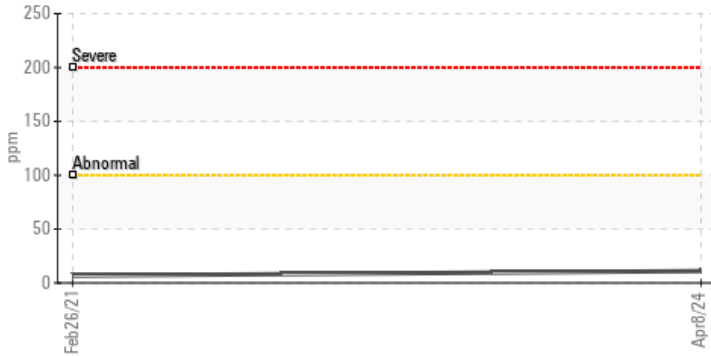


CONSTRUCTION EQUIPMENT

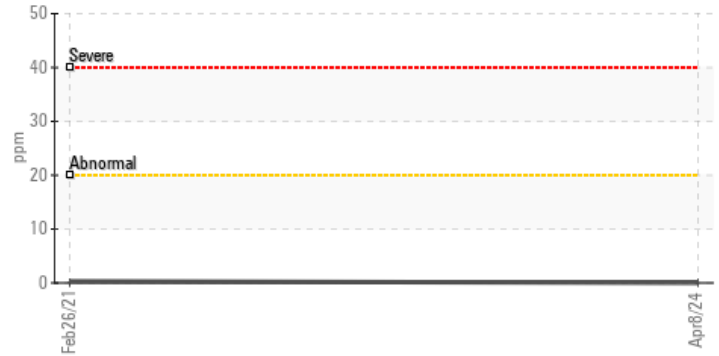


GRAPHS

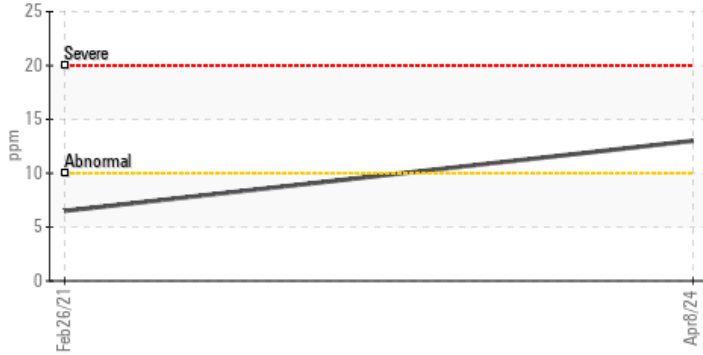
Iron (ppm)



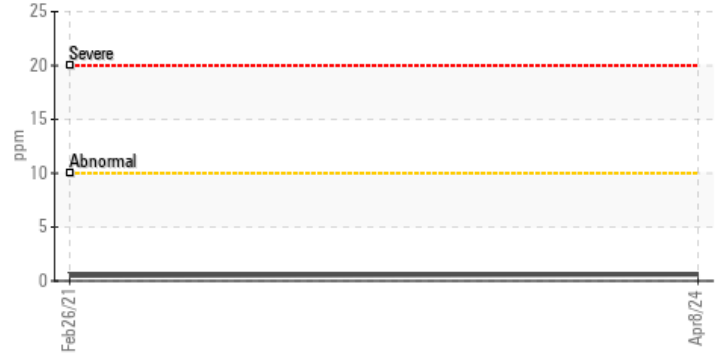
Lead (ppm)



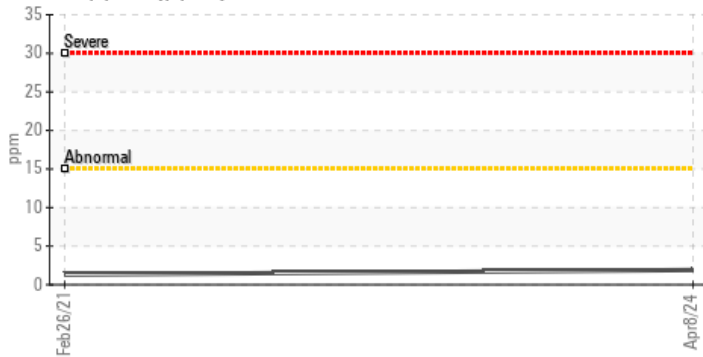
Aluminum (ppm)



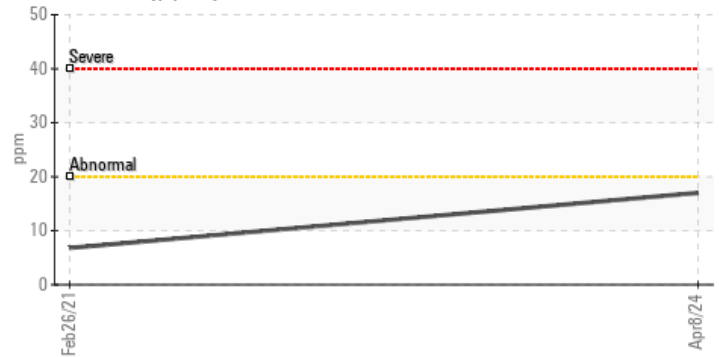
Chromium (ppm)



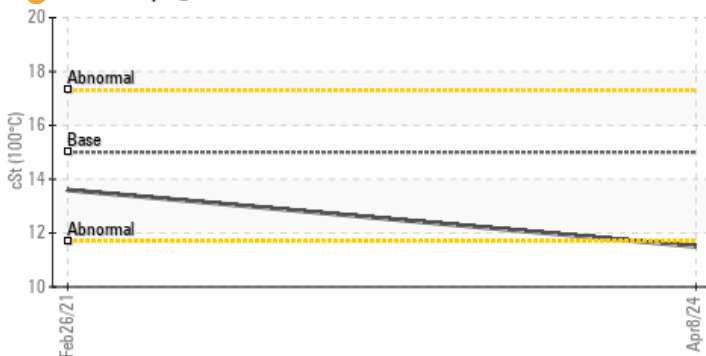
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

