



CONSTRUCTION EQUIPMENT

TREMRON VOLVO L90F 028721 - DIESEL ENGINE



Sample No: VCP454844
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: TREMRON



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SAMPLE INFORMATION

Sample Number	VCP454844	VCP428839	---	---
Sample Date	07 May 2024	05 Dec 2023	---	---
Machine Hours	21991	21226	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---



OIL CONDITION

Visc @ 100°C	cSt	█ 13.5	█ 13.2	---	---
Base Number (BN)	mg KOH/g	█ 9.6	---	---	---
Oxidation (PA)	%	80	---	---	---



CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	█ 0.4	---	---	---
Nitration (PA)	%	64	---	---	---
Sulfation (PA)	%	61	---	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 5	█ 5	---	---
Sodium	ppm	█ 3	█ 0	---	---
Potassium	ppm	█ 0	█ 2	---	---



WEAR METALS

Iron	ppm	█ 16	█ 10	---	---
Copper	ppm	█ <1	█ <1	---	---
Lead	ppm	█ 0	█ <1	---	---
Tin	ppm	█ 0	█ <1	---	---
Aluminum	ppm	█ <1	█ 2	---	---
Chromium	ppm	█ 0	█ <1	---	---
Molybdenum	ppm	█ 44	█ 39	---	---
Nickel	ppm	█ 0	█ <1	---	---
Titanium	ppm	0	<1	---	---
Silver	ppm	█ 0	█ 0	---	---
Manganese	ppm	█ <1	█ <1	---	---
Vanadium	ppm	<1	0	---	---



ADDITIVES

Calcium	ppm	█ 1769	█ 1635	---	---
Magnesium	ppm	█ 570	█ 467	---	---
Zinc	ppm	█ 1145	█ 1101	---	---
Phosphorus	ppm	█ 987	█ 934	---	---
Barium	ppm	█ 0	█ <1	---	---
Boron	ppm	█ 24	█ 38	---	---

Diagnosis

Resample at the next service interval to monitor. All 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.

Depot: VOLVO0093
Unique No: 11029627
Signed: Wes Davis
Report Date: 14 May 2024

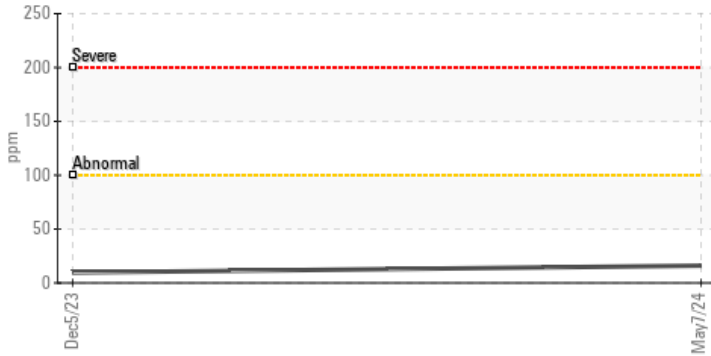


CONSTRUCTION EQUIPMENT

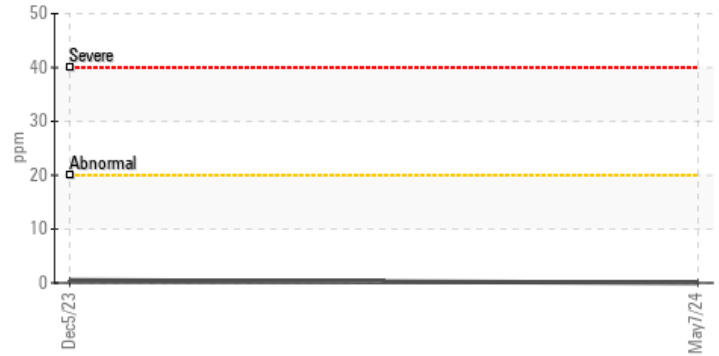


GRAPHS

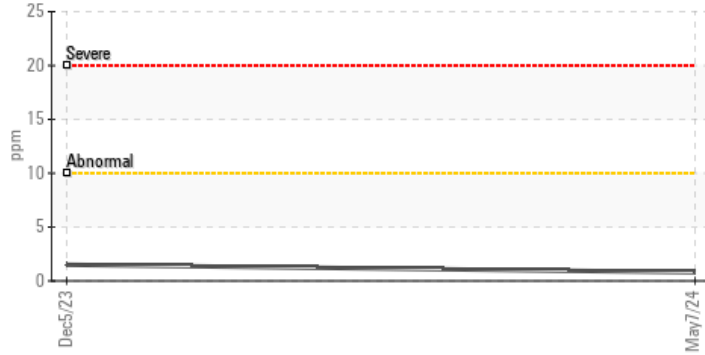
Iron (ppm)



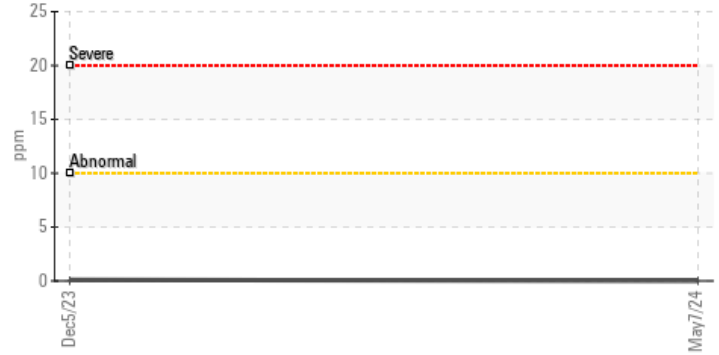
Lead (ppm)



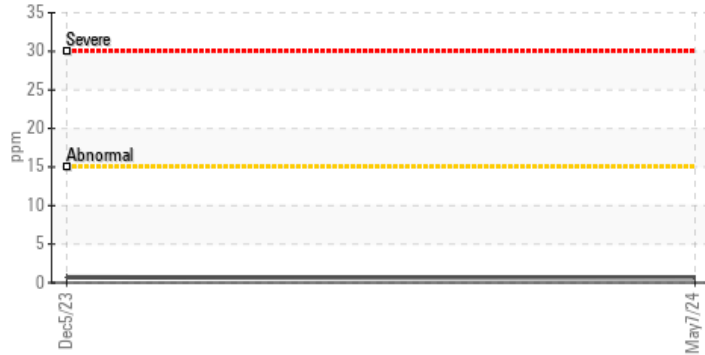
Aluminum (ppm)



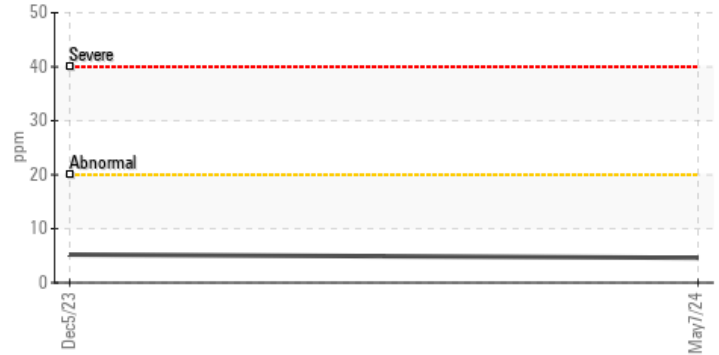
Chromium (ppm)



Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

