



CONSTRUCTION EQUIPMENT

X48968 TADANO GR800XL-4 RA1639 - DIESEL ENGINE



Sample No: VCP439919
Oil Type: VOLVO VDS-4.5 Premium Motor Oil 15W40
Job No: X48968



SAMPLE INFORMATION

Sample Number	VCP439919	---	---	---
Sample Date	07 May 2024	---	---	---
Machine Hours	2565	---	---	---
Oil Hours	2565	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	MARGINAL	---	---	---

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OIL CONDITION

Visc @ 100°C	cSt	█ 11.9	---	---	---
Base Number (BN)	mg KOH/g	█ 9.1	---	---	---
Oxidation (PA)	%	66	---	---	---

Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time. Metal levels are typical for a components first oil change. Light fuel dilution occurring. No other contaminants were detected 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.

CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.3	---	---	---
Nitration (PA)	%	61	---	---	---
Sulfation (PA)	%	55	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	▲ 2.7	---	---	---
Silicon	ppm	█ 8	---	---	---
Sodium	ppm	█ 0	---	---	---
Potassium	ppm	█ 4	---	---	---

WEAR METALS

Iron	ppm	█ 15	---	---	---
Copper	ppm	█ 4	---	---	---
Lead	ppm	█ <1	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 2	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 67	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	<1	---	---	---

ADDITIVES

Calcium	ppm	1122	---	---	---
Magnesium	ppm	█ 830	---	---	---
Zinc	ppm	█ 1150	---	---	---
Phosphorus	ppm	█ 1052	---	---	---
Barium	ppm	█ 3	---	---	---
Boron	ppm	█ 13	---	---	---

Depot: VOLVO6244
Unique No: 11022897
Signed: Wes Davis
Report Date: 15 May 2024



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GRAPHS

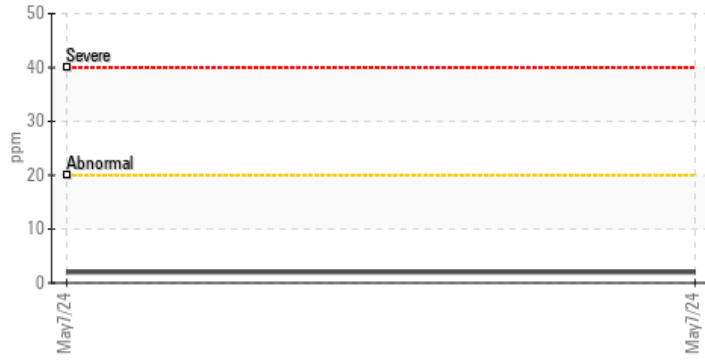
Iron (ppm)



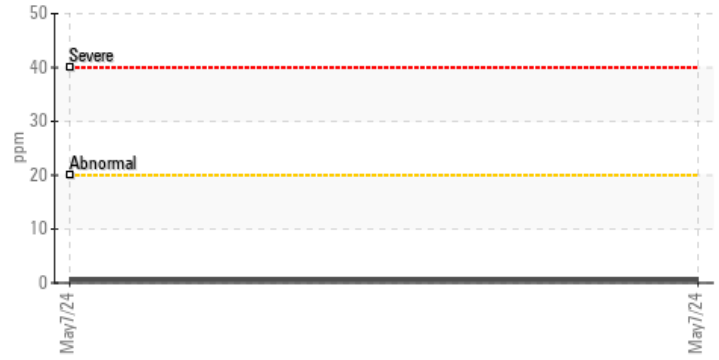
Lead (ppm)



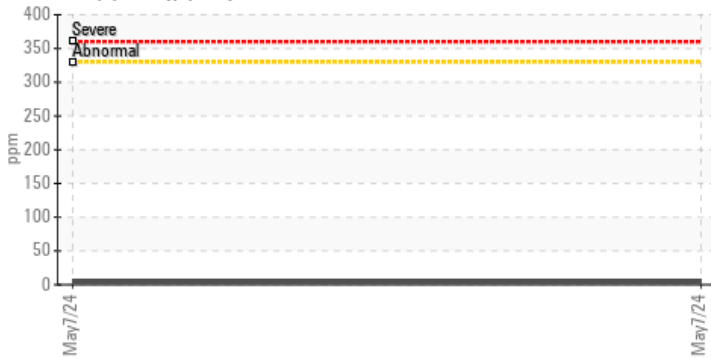
Aluminum (ppm)



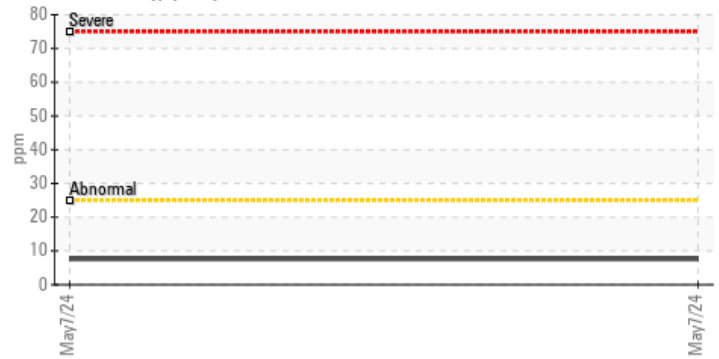
Chromium (ppm)



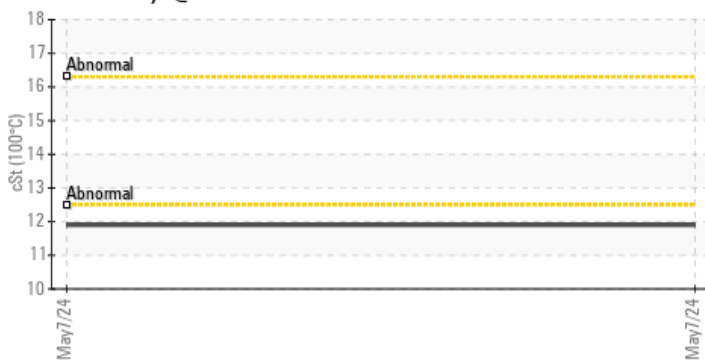
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

