



CONSTRUCTION EQUIPMENT

VOLVO VCP 433447 (S/N NO INFO ON SIF/BOTTLE) - DIESEL ENGINE



Sample No: VCP433447
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP433447	---	---	---
Sample Date	29 Jan 2024	---	---	---
Machine Hours	4	---	---	---
Oil Hours	4	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ATTENTION	---	---	---

ALTA CONSTRUCTION EQUIPMENT
 613 E STEVENSON RD
 OTTAWA, IL
 US 61350
 Contact: ALEX MARCO
 ALEXANDER.MARCO@ALTG.COM
 T:
 F:



OIL CONDITION

Visc @ 100°C	cSt	▲ 10.2	---	---	---
Base Number (BN)	mg KOH/g	■ 5.9	---	---	---
Oxidation (PA)	%	77	---	---	---

Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All 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. Additive levels indicate the addition of a different brand, or type of oil. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.



CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	■ 0	---	---	---
Nitration (PA)	%	29	---	---	---
Sulfation (PA)	%	68	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	■ 0.4	---	---	---
Silicon	ppm	■ 9	---	---	---
Sodium	ppm	■ 1	---	---	---
Potassium	ppm	■ <1	---	---	---



WEAR METALS

Iron	ppm	■ 1	---	---	---
Copper	ppm	■ 2	---	---	---
Lead	ppm	■ <1	---	---	---
Tin	ppm	■ <1	---	---	---
Aluminum	ppm	■ 3	---	---	---
Chromium	ppm	■ 0	---	---	---
Molybdenum	ppm	■ 17	---	---	---
Nickel	ppm	■ <1	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ 2	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	▲ 764	---	---	---
Magnesium	ppm	■ 283	---	---	---
Zinc	ppm	▲ 755	---	---	---
Phosphorus	ppm	▲ 620	---	---	---
Barium	ppm	■ 1	---	---	---
Boron	ppm	■ 39	---	---	---

Depot: VOLVO5055
Unique No: 10856391
Signed: Jonathan Hester
Report Date: 02 Feb 2024



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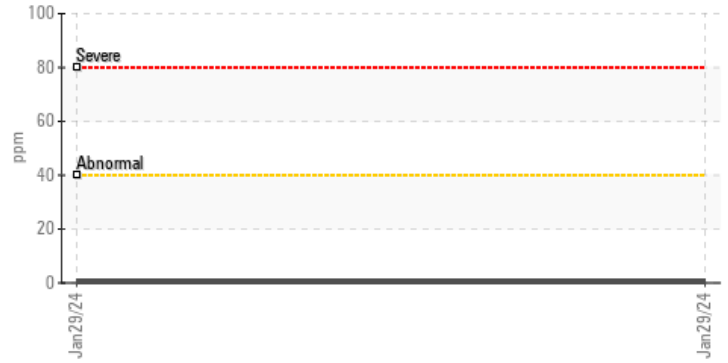


GRAPHS

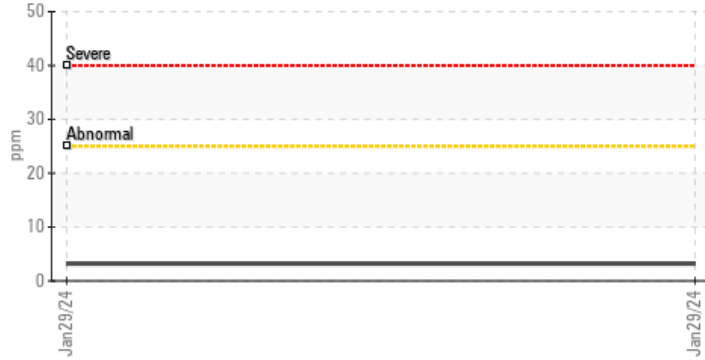
Iron (ppm)



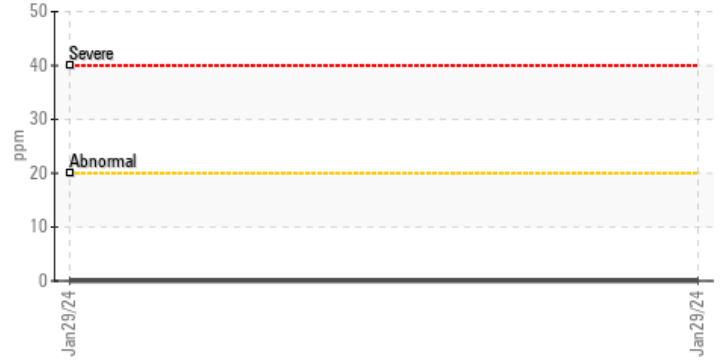
Lead (ppm)



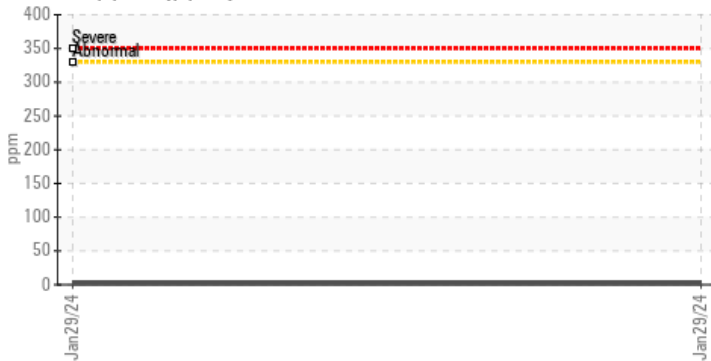
Aluminum (ppm)



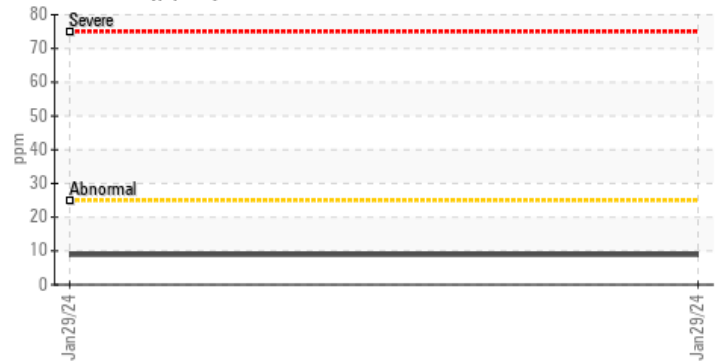
Chromium (ppm)



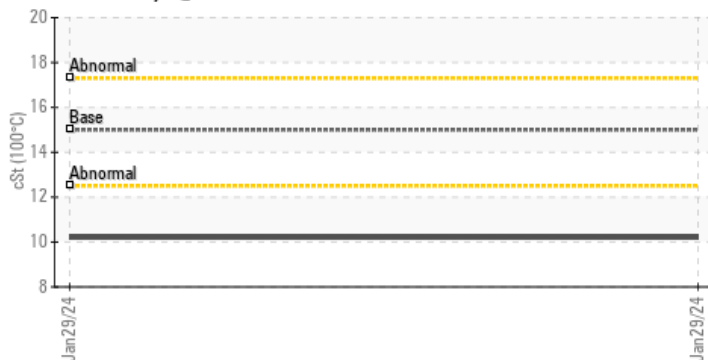
Copper (ppm)



Silicon (ppm)



▲ Viscosity @ 100°C



Base Number

