



CONSTRUCTION EQUIPMENT

14033 AVANT 423 110299 - DIESEL ENGINE



Sample No: VCP447925
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: 14033



SAMPLE INFORMATION

Sample Number	VCP447925	VCP423664	---	---
Sample Date	28 Dec 2023	14 Apr 2023	---	---
Machine Hours	314	78	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	ATTENTION	---	---

MCCLUNG-LOGAN EQUIPMENT CO - RICHMOND
 1345 MOUNTAIN ROAD
 GLEN ALLEN, VA
 US 23060
 Contact: KYLE RATLIFFE
 KRATLIFFE@MCCLUNG-LOGAN.COM
 T:
 F: (804)266-1611

OIL CONDITION

Visc @ 100°C	cSt	█ 13.3	▲ 10.5	---	---
Base Number (BN)	mg KOH/g	█ 9.3	█ 7.2	---	---
Oxidation (PA)	%	65	29	---	---

Diagnosis

Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. 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.

CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	█ 0.3	█ 0.1	---	---
Nitration (PA)	%	66	34	---	---
Sulfation (PA)	%	55	34	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	█ 0.5	---	---
Silicon	ppm	█ 6	█ 11	---	---
Sodium	ppm	█ 2	█ 1	---	---
Potassium	ppm	█ 0	█ 0	---	---

WEAR METALS

Iron	ppm	█ 35	█ 27	---	---
Copper	ppm	█ 3	█ 14	---	---
Lead	ppm	█ <1	█ 0	---	---
Tin	ppm	█ <1	█ 0	---	---
Aluminum	ppm	█ 4	█ 5	---	---
Chromium	ppm	█ 4	█ <1	---	---
Molybdenum	ppm	█ 53	█ 12	---	---
Nickel	ppm	█ 2	█ 0	---	---
Titanium	ppm	█ 0	█ 0	---	---
Silver	ppm	█ 0	█ 0	---	---
Manganese	ppm	█ <1	█ 2	---	---
Vanadium	ppm	0	0	---	---

ADDITIVES

Calcium	ppm	█ 1505	█ 1308	---	---
Magnesium	ppm	█ 782	█ 844	---	---
Zinc	ppm	█ 1183	█ 1308	---	---
Phosphorus	ppm	█ 967	█ 1072	---	---
Barium	ppm	█ 0	█ 1	---	---
Boron	ppm	█ 42	█ 5	---	---

Depot: VOLVO8882
Unique No: 10809948
Signed: Wes Davis
Report Date: 04 Jan 2024

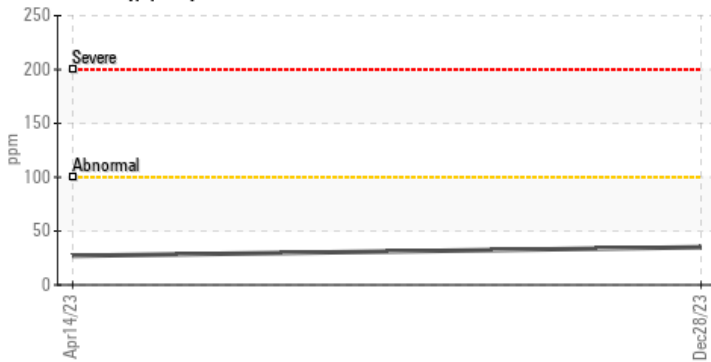


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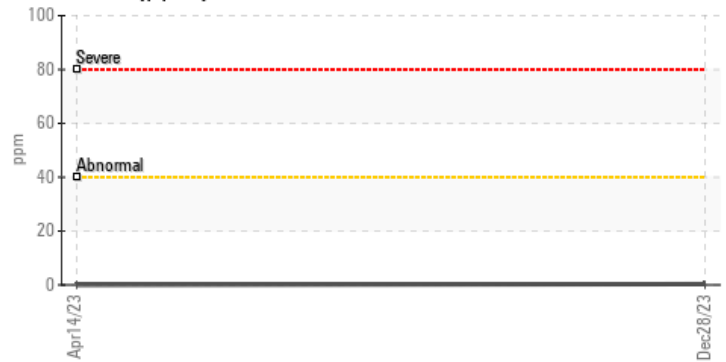


GRAPHS

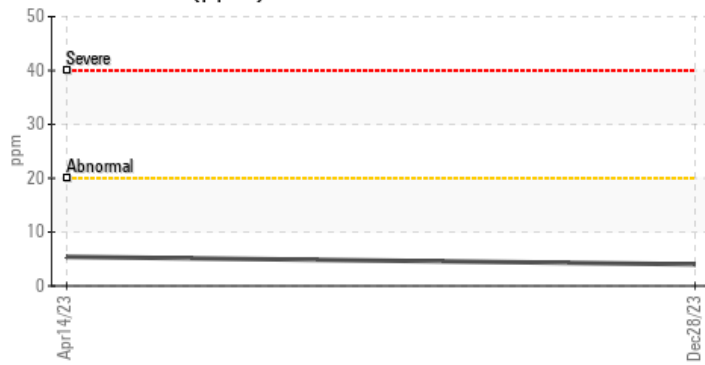
Iron (ppm)



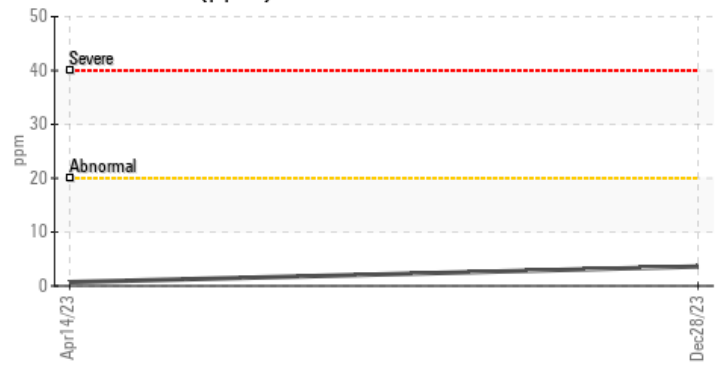
Lead (ppm)



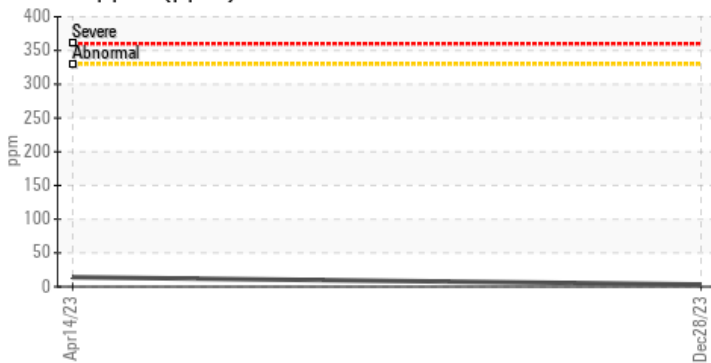
Aluminum (ppm)



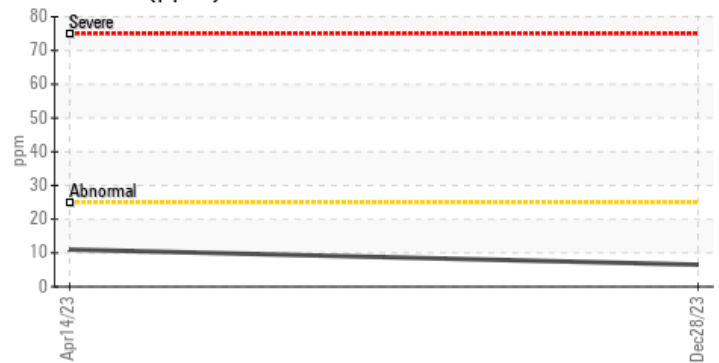
Chromium (ppm)



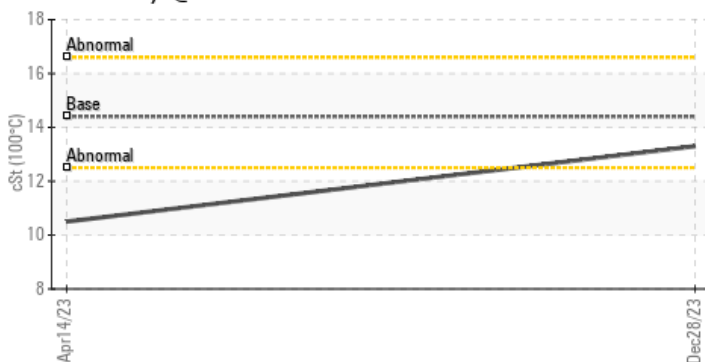
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

