



CONSTRUCTION EQUIPMENT

660140 VOLVO L110H 632644 - DIESEL ENGINE



Sample No: VCP441891
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 660140



SAMPLE INFORMATION

Sample Number	VCP441891	VCP431798	---	---
Sample Date	15 Jan 2024	04 Dec 2023	---	---
Machine Hours	2464	1860	---	---
Oil Hours	500	0	---	---
Oil Changed	Changed	N/A	---	---
Sample Status	NORMAL	ABNORMAL	---	---

COVANTA
 350 FLAKENBURG ROAD
 TAMPA, FL
 US 33619
 Contact: SERVICE MANAGER

OIL CONDITION

Visc @ 100°C	cSt	█ 13.3	█ 13.1	---	---
Base Number (BN)	mg KOH/g	█ 9.4	█ 9.5	---	---
Oxidation (PA)	%	76	84	---	---

T: (813)684-5688
 F:

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.

CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	█ 0.2	█ 0.4	---	---
Nitration (PA)	%	58	73	---	---
Sulfation (PA)	%	58	61	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 13	█ 18	---	---
Sodium	ppm	█ 1	█ 0	---	---
Potassium	ppm	█ 0	█ 3	---	---

WEAR METALS

Iron	ppm	█ 9	█ 20	---	---
Copper	ppm	█ 3	█ 10	---	---
Lead	ppm	█ <1	█ 2	---	---
Tin	ppm	█ <1	█ 2	---	---
Aluminum	ppm	█ 7	▲ 21	---	---
Chromium	ppm	█ <1	█ 1	---	---
Molybdenum	ppm	█ 39	█ 39	---	---
Nickel	ppm	█ 0	█ <1	---	---
Titanium	ppm	<1	█ <1	---	---
Silver	ppm	█ 0	█ <1	---	---
Manganese	ppm	█ 0	█ <1	---	---
Vanadium	ppm	<1	0	---	---

ADDITIVES

Calcium	ppm	█ 1624	█ 1625	---	---
Magnesium	ppm	█ 562	█ 491	---	---
Zinc	ppm	█ 1135	█ 1120	---	---
Phosphorus	ppm	█ 911	█ 937	---	---
Barium	ppm	█ 0	█ 4	---	---
Boron	ppm	█ 33	█ 27	---	---

Depot: COVTAM
Unique No: 10886297
Signed: Wes Davis
Report Date: 20 Feb 2024

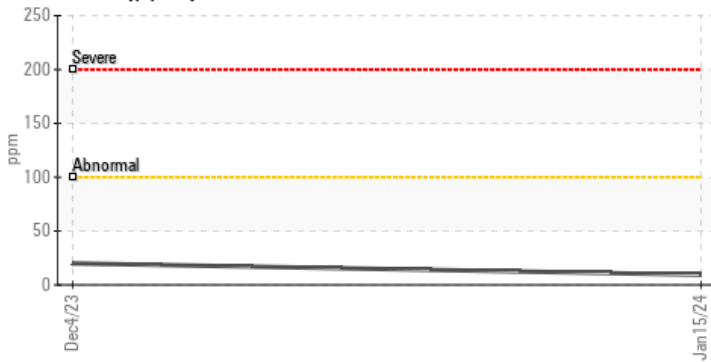


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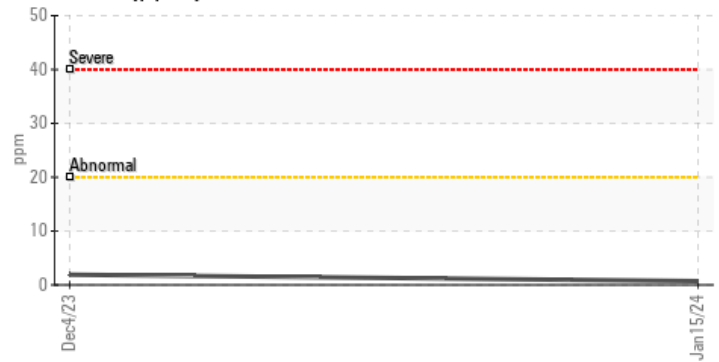


GRAPHS

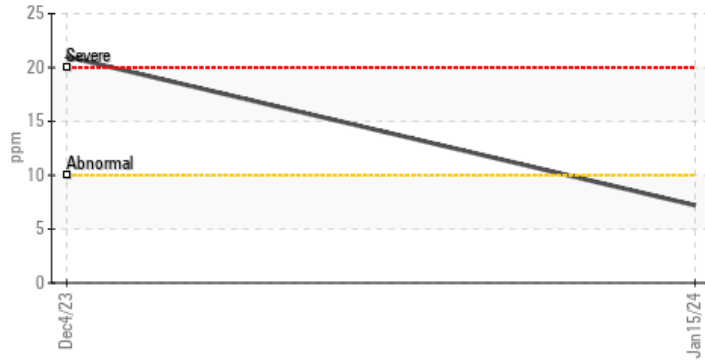
Iron (ppm)



Lead (ppm)



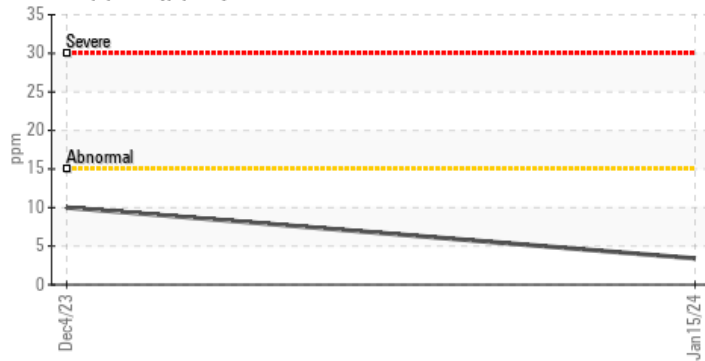
Aluminum (ppm)



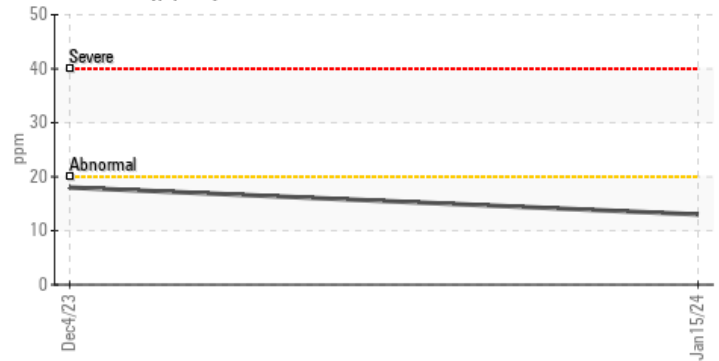
Chromium (ppm)



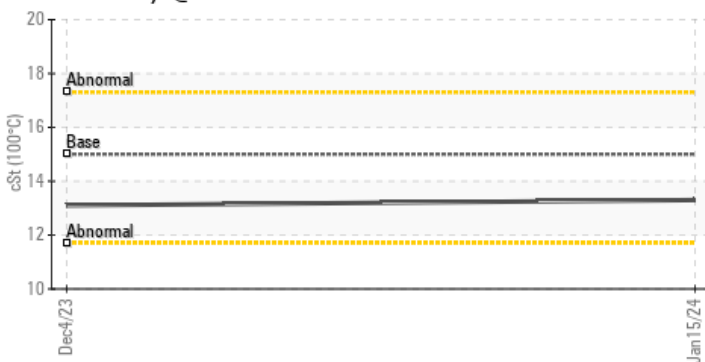
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

