



CONSTRUCTION EQUIPMENT

SPM660527-10 VOLVO L90H 626609 - DIESEL ENGINE



Sample No: VCP441171
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SPM660527-10



SAMPLE INFORMATION

Sample Number	VCP441171	VCP412125	---	---
Sample Date	24 Jan 2024	20 Oct 2023	---	---
Machine Hours	1465	770	---	---
Oil Hours	0	0	---	---
Oil Changed	N/A	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

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OIL CONDITION

Visc @ 100°C	cSt	13.0	12.7	---	---
Base Number (BN)	mg KOH/g	10.0	9.6	---	---
Oxidation (PA)	%	82	80	---	---

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 %	%	0.3	0.2	---	---
Nitration (PA)	%	67	63	---	---
Sulfation (PA)	%	60	60	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	7	15	---	---
Sodium	ppm	2	4	---	---
Potassium	ppm	2	0	---	---



WEAR METALS

Iron	ppm	19	35	---	---
Copper	ppm	3	7	---	---
Lead	ppm	1	0	---	---
Tin	ppm	2	3	---	---
Aluminum	ppm	12	71	---	---
Chromium	ppm	2	9	---	---
Molybdenum	ppm	47	39	---	---
Nickel	ppm	<1	0	---	---
Titanium	ppm	0	<1	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	1	4	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	1621	1568	---	---
Magnesium	ppm	527	620	---	---
Zinc	ppm	1153	1152	---	---
Phosphorus	ppm	986	842	---	---
Barium	ppm	0	2	---	---
Boron	ppm	34	42	---	---

Depot: VOLVO0090
Unique No: 10857561
Signed: Wes Davis
Report Date: 01 Feb 2024

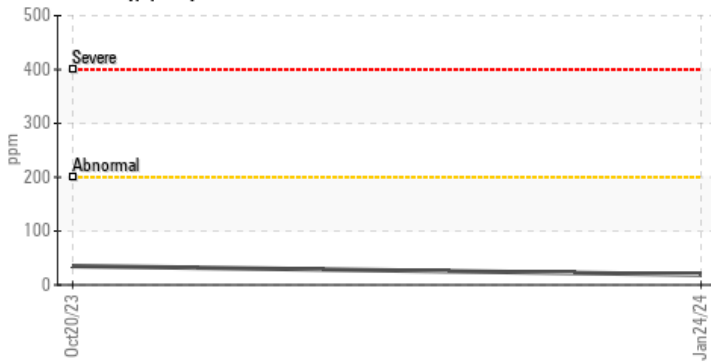


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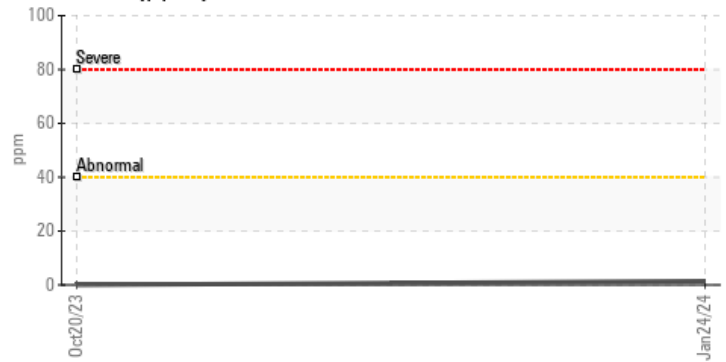


GRAPHS

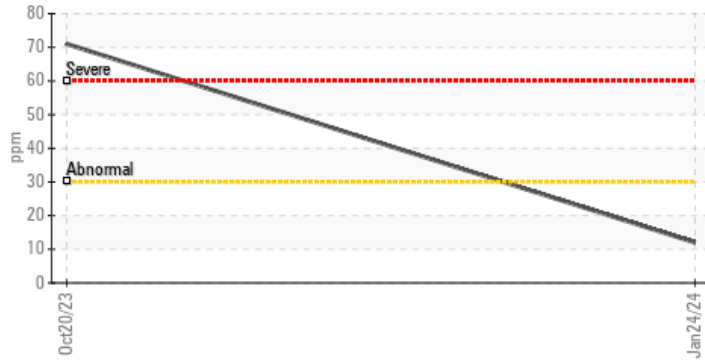
Iron (ppm)



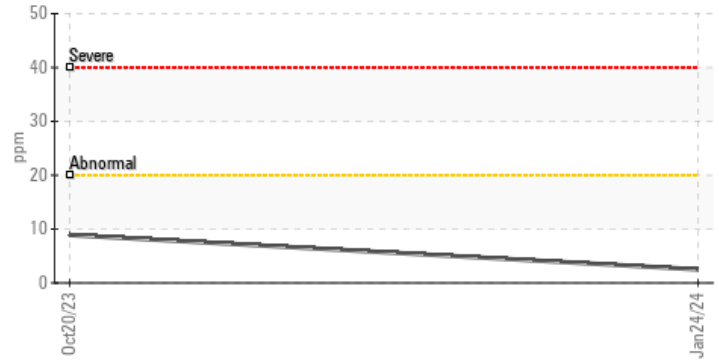
Lead (ppm)



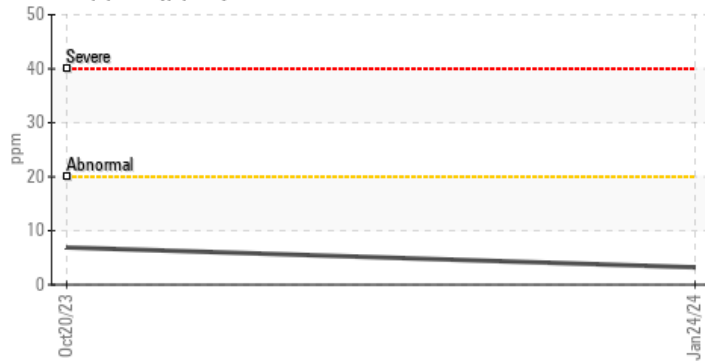
Aluminum (ppm)



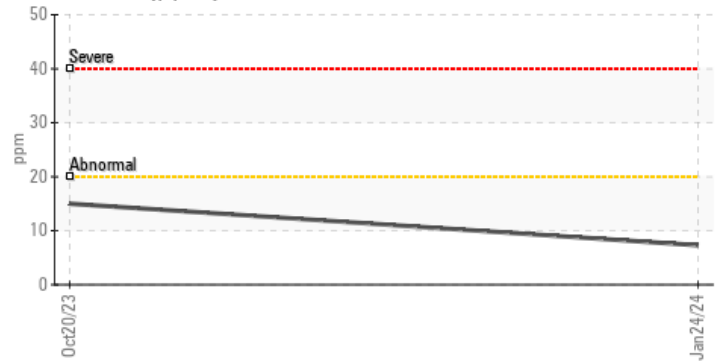
Chromium (ppm)



Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

