



# CONSTRUCTION EQUIPMENT

715840 VOLVO L60H 623 101 - DIESEL ENGINE



**Sample No:** VCP449900  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 715840



**ALTA EQUIPMENT COMPANY - METRO WEST**  
 56195 PONTIAC TRAIL  
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 US 48165  
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## SAMPLE INFORMATION

Sample Number	VCP449900	VCP452281	---	---
Sample Date	21 May 2024	22 Jan 2024	---	---
Machine Hours	1201	745	---	---
Oil Hours	500	745	---	---
Oil Changed	N/A	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---



## OIL CONDITION

Visc @ 100°C	cSt	█ 13.3	█ 12.3	---	---
Base Number (BN)	mg KOH/g	█ 9.4	█ 9.4	---	---
Oxidation (PA)	%	62	76	---	---



## CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	█ 0.2	█ 0.2	---	---
Nitration (PA)	%	60	60	---	---
Sulfation (PA)	%	53	60	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 17	█ 19	---	---
Sodium	ppm	█ 2	█ 0	---	---
Potassium	ppm	█ 3	█ 3	---	---



## WEAR METALS

Iron	ppm	█ 16	█ 33	---	---
Copper	ppm	█ 3	█ 11	---	---
Lead	ppm	█ <1	█ <1	---	---
Tin	ppm	█ 2	█ 2	---	---
Aluminum	ppm	█ 3	█ 4	---	---
Chromium	ppm	█ 2	█ 1	---	---
Molybdenum	ppm	█ 61	█ 40	---	---
Nickel	ppm	█ <1	█ 0	---	---
Titanium	ppm	<1	0	---	---
Silver	ppm	█ 1	█ 0	---	---
Manganese	ppm	█ 1	█ 3	---	---
Vanadium	ppm	<1	0	---	---



## ADDITIVES

Calcium	ppm	█ 1196	█ 1459	---	---
Magnesium	ppm	█ 963	█ 612	---	---
Zinc	ppm	█ 1258	█ 1131	---	---
Phosphorus	ppm	█ 1014	█ 888	---	---
Barium	ppm	█ 2	█ 8	---	---
Boron	ppm	█ 6	█ 48	---	---

## 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 acceptable for the time in service.

**Depot:** VOLVO2990  
**Unique No:** 11048581  
**Signed:** Sean Felton  
**Report Date:** 30 May 2024

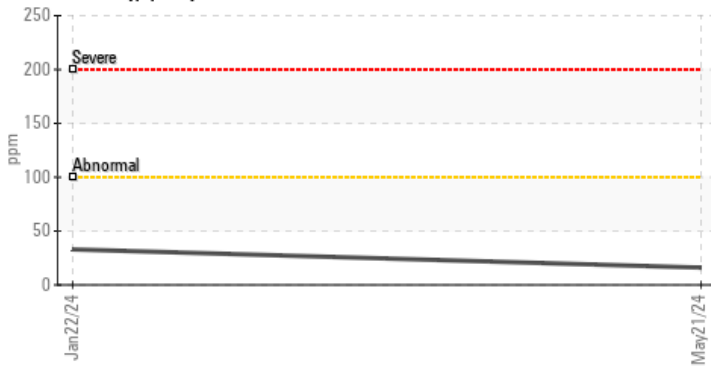


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## GRAPHS

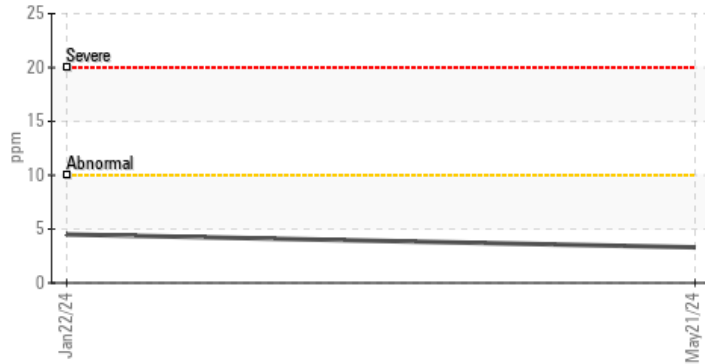
### Iron (ppm)



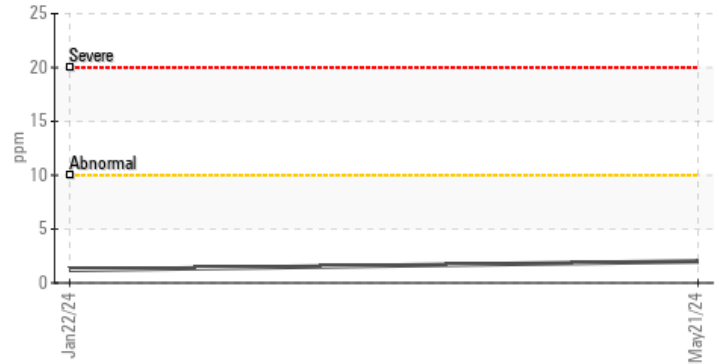
### Lead (ppm)



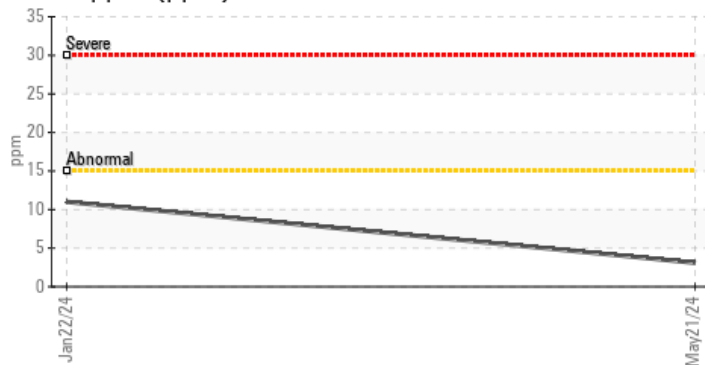
### Aluminum (ppm)



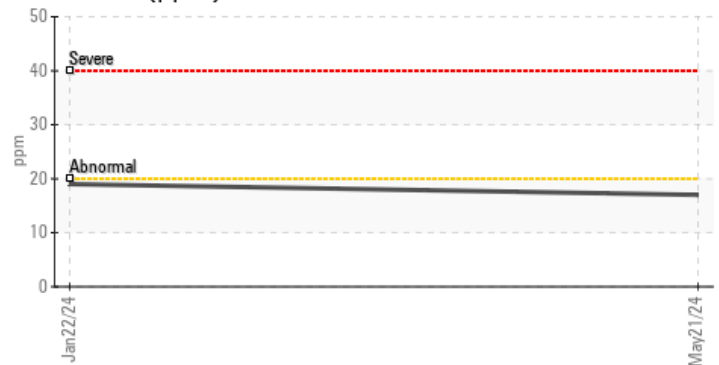
### Chromium (ppm)



### Copper (ppm)



### Silicon (ppm)



### Viscosity @ 100°C



### Base Number

