



# CONSTRUCTION EQUIPMENT

## 629257 VOLVO L90H 625378 - DIESEL ENGINE



**Sample No:** VCP443722  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 629257



### SAMPLE INFORMATION

Sample Number	<b>VCP443722</b>	VCP422476	VCP427159	VCP406260
Sample Date	<b>05 Apr 2024</b>	20 Nov 2023	03 Aug 2023	17 Apr 2023
Machine Hours	<b>7764</b>	6410	5525	5096
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>N/A</b>	N/A	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

**FORESTRY RESOURCES**  
 4353 MICHIGAN LINK  
 FORT MYERS, FL  
 US 33916  
 Contact: COREY MUELLER

### OIL CONDITION

Visc @ 100°C	cSt	<b>14.3</b>	13.7	13.3	13.6
Base Number (BN)	mg KOH/g	<b>6.7</b>	9.2	10.2	8.9
Oxidation (PA)	%	<b>108</b>	79	84	67

T: (239)872-1856  
 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	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.7</b>	0.4	0.3	0.3
Nitration (PA)	%	<b>106</b>	82	67	63
Sulfation (PA)	%	<b>71</b>	59	61	52
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>7</b>	5	6	4
Sodium	ppm	<b>2</b>	2	3	1
Potassium	ppm	<b>&lt;1</b>	0	<1	0

### WEAR METALS

Iron	ppm	<b>27</b>	9	8	7
Copper	ppm	<b>2</b>	<1	<1	<1
Lead	ppm	<b>4</b>	<1	<1	0
Tin	ppm	<b>&lt;1</b>	<1	<1	<1
Aluminum	ppm	<b>6</b>	6	4	3
Chromium	ppm	<b>1</b>	<1	<1	<1
Molybdenum	ppm	<b>56</b>	49	48	48
Nickel	ppm	<b>&lt;1</b>	0	0	0
Titanium	ppm	<b>0</b>	0	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>&lt;1</b>	<1	<1	0

### ADDITIVES

Calcium	ppm	<b>1939</b>	1445	1915	980
Magnesium	ppm	<b>580</b>	701	602	730
Zinc	ppm	<b>1311</b>	1197	1263	951
Phosphorus	ppm	<b>998</b>	1045	1047	848
Barium	ppm	<b>&lt;1</b>	0	0	0
Boron	ppm	<b>13</b>	11	29	8

**Depot:** FORFORTFL  
**Unique No:** 10968741  
**Signed:** Jonathan Hester  
**Report Date:** 12 Apr 2024

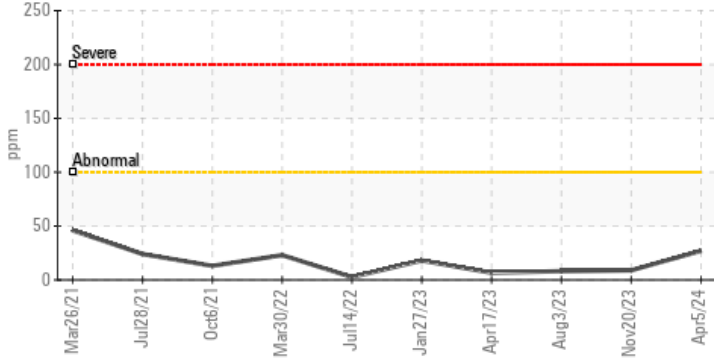


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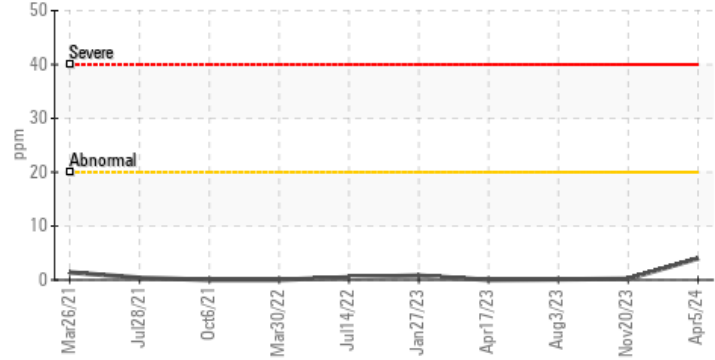


## GRAPHS

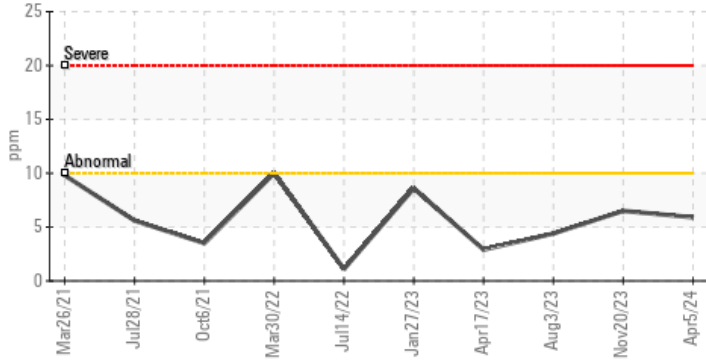
### Iron (ppm)



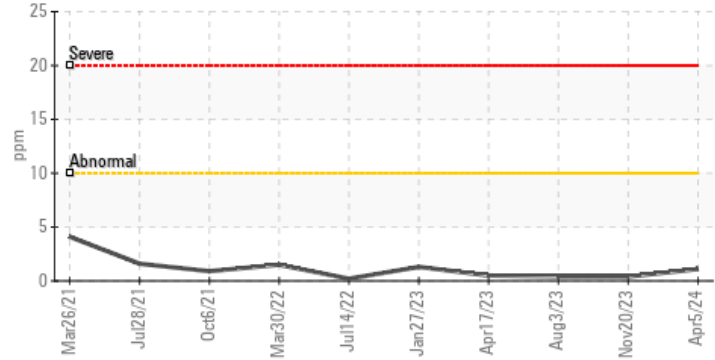
### Lead (ppm)



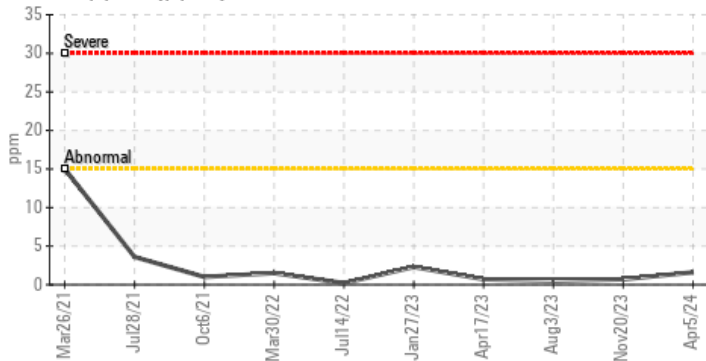
### Aluminum (ppm)



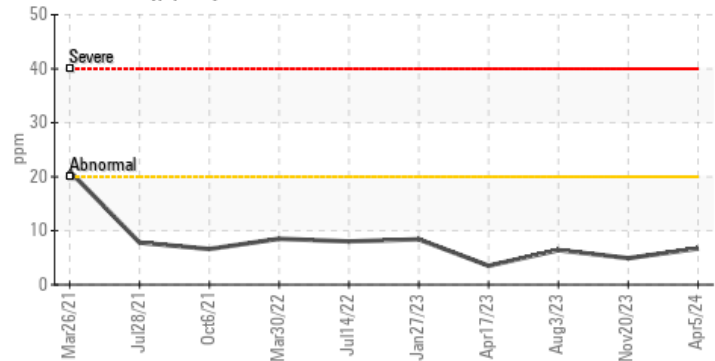
### Chromium (ppm)



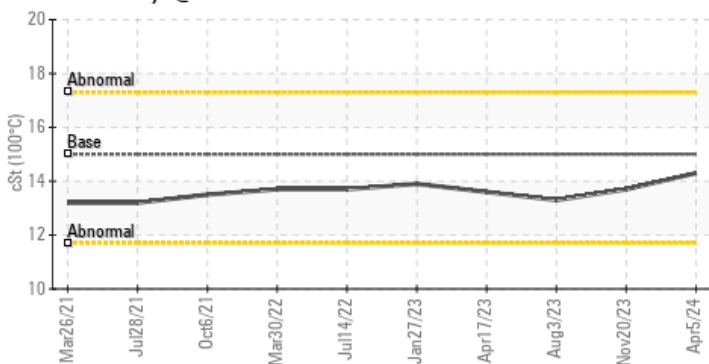
### Copper (ppm)



### Silicon (ppm)



### Viscosity @ 100°C



### Base Number

