



# VOLVO

## OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area  
**EXCAVATION JEAN LECLERC [405211]**  
Machine Id  
**VOLVO L90H 627930**  
Component  
**Diesel Engine**  
Fluid  
**DIESEL ENGINE OIL SAE 15W40 (--- GAL)**



### RECOMMENDATION

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 15W40. Please confirm.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP393043	---	---
Sample Date		Client Info		17 May 2024	---	---
Machine Age	hrs	Client Info		495	---	---
Oil Age	hrs	Client Info		0	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		N/A	---	---
Filter Changed		Client Info		N/A	---	---
Sample Status				NORMAL	---	---

### WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>100	25	---	---
Chromium	ppm	ASTM D5185(m)	>10	2	---	---
Nickel	ppm	ASTM D5185(m)	>10	0	---	---
Titanium	ppm	ASTM D5185(m)		0	---	---
Silver	ppm	ASTM D5185(m)	>2	0	---	---
Aluminum	ppm	ASTM D5185(m)	>10	3	---	---
Lead	ppm	ASTM D5185(m)	>20	<1	---	---
Copper	ppm	ASTM D5185(m)	>15	8	---	---
Tin	ppm	ASTM D5185(m)	>10	2	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---

### CONTAMINATION

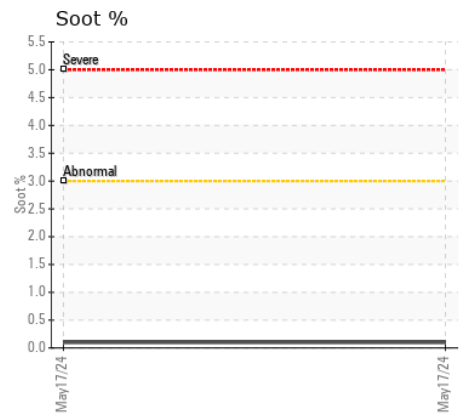
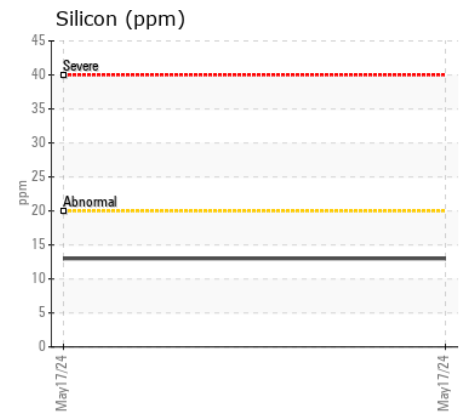
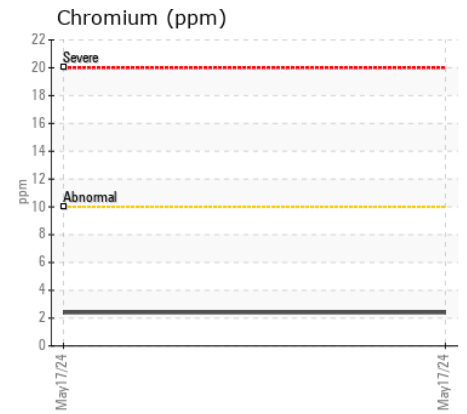
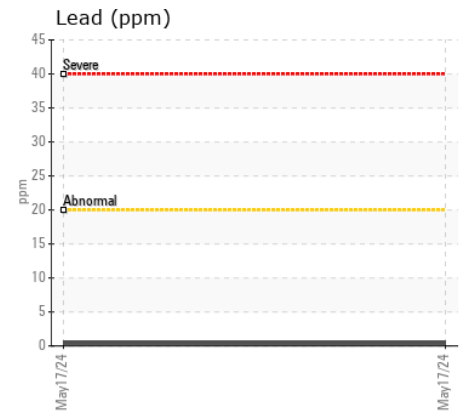
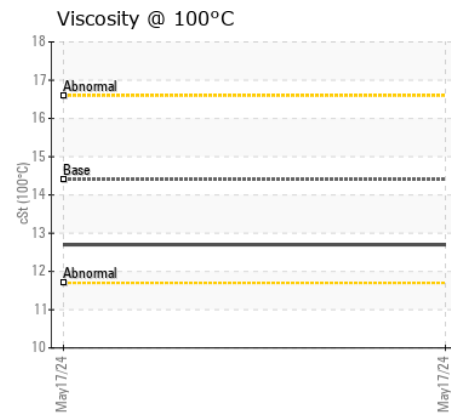
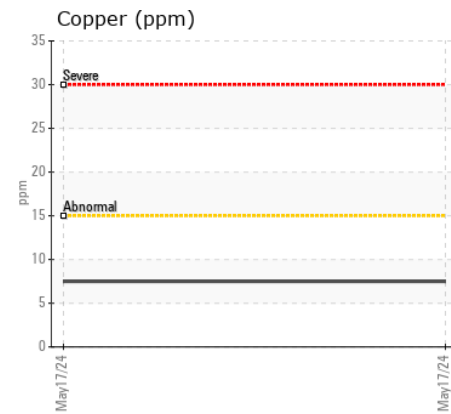
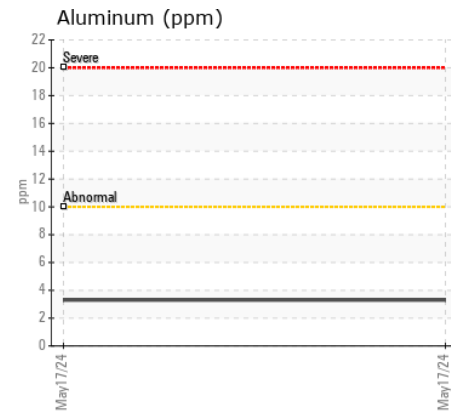
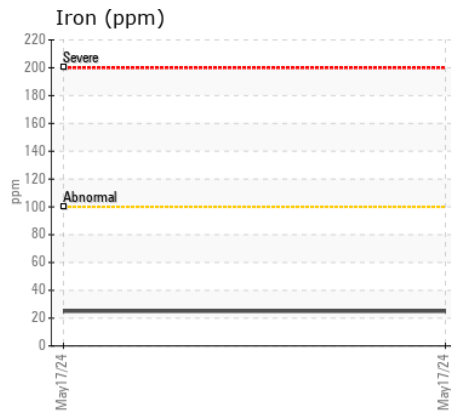
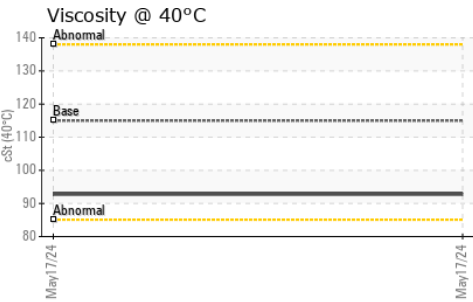
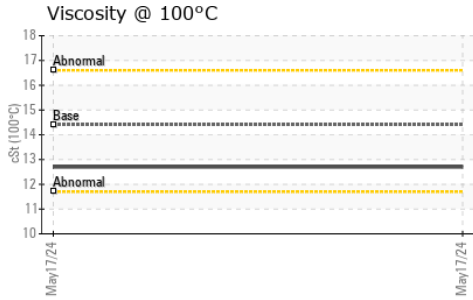
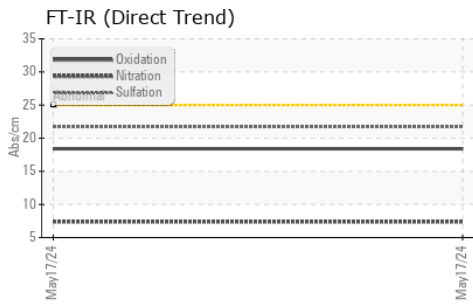
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>20	13	---	---
Potassium	ppm	ASTM D5185(m)	>20	<1	---	---
Fuel		WC Method	>6.0	<1.0	---	---
Water		WC Method	>0.1	NEG	---	---
Glycol		WC Method		NEG	---	---
Soot %	%	ASTM D7844*	>3	0.1	---	---
Nitration	Abs/cm	ASTM D7624*	>20	7.4	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.7	---	---
Emulsified Water	scalar	Visual*	>0.1	NEG	---	---

### FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)	>158	3	---	---
Boron	ppm	ASTM D5185(m)	250	46	---	---
Barium	ppm	ASTM D5185(m)	10	4	---	---
Molybdenum	ppm	ASTM D5185(m)	100	40	---	---
Manganese	ppm	ASTM D5185(m)		5	---	---
Magnesium	ppm	ASTM D5185(m)	450	598	---	---
Calcium	ppm	ASTM D5185(m)	3000	1490	---	---
Phosphorus	ppm	ASTM D5185(m)	1150	857	---	---
Zinc	ppm	ASTM D5185(m)	1350	1044	---	---
Sulfur	ppm	ASTM D5185(m)	4250	2840	---	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	18.4	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	115	92.8	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	12.7	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	126	133	---	---



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : VCP393043 **Received** : 23 May 2024  
**Lab Number** : 02637292 **Tested** : 24 May 2024  
**Unique Number** : 5786454 **Diagnosed** : 24 May 2024 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: KV40, VI )

To discuss this sample report, contact Customer Service at 1-800-268-2131.  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.  
 Validity of results and interpretation are based on the sample and information as supplied.

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