



# VOLVO

## OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>



Area  
**TMR-Sanford [701940]**  
Machine Id  
**102145 VOLVO L20F 1705481**  
Component  
**Rear Axle**  
Fluid  
**GEAR OIL SAE 80W140 (--- 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) GEAR OIL SAE 80W140. Please confirm.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>VCP447092</b>	VCP261567	VCP166834
Sample Date		Client Info		<b>15 Apr 2024</b>	07 Jan 2020	13 Jan 2014
Machine Age	hrs	Client Info		<b>7031</b>	6270	1792
Oil Age	hrs	Client Info		<b>0</b>	0	1500
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Not Changd	Changed
Filter Changed		Client Info		<b>Not Changed</b>	Not Changed	Not Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	<b>80</b>	58	262
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	3
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185m		<b>2</b>	1	12
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>30	<b>2</b>	<1	1
Lead	ppm	ASTM D5185m	>50	<b>1</b>	<1	<1
Copper	ppm	ASTM D5185m	>120	<b>1</b>	<1	2
Tin	ppm	ASTM D5185m	>20	<b>&lt;1</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

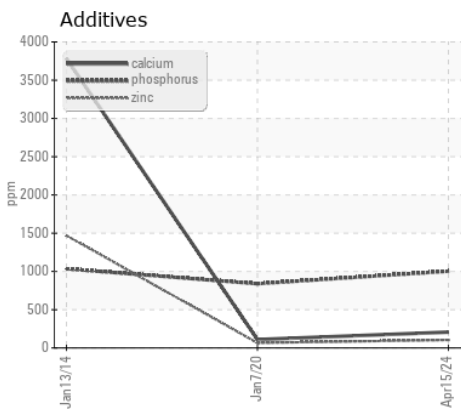
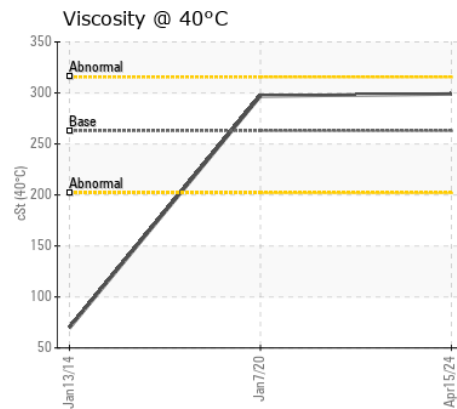
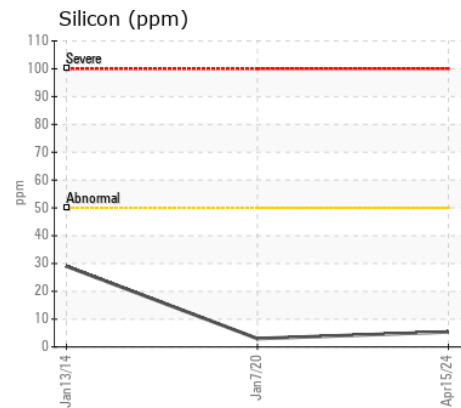
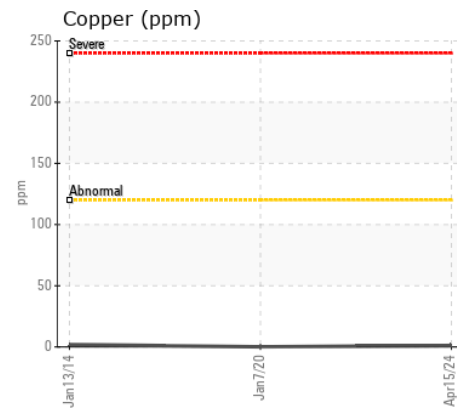
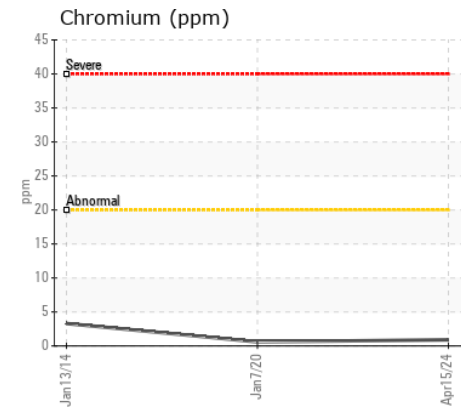
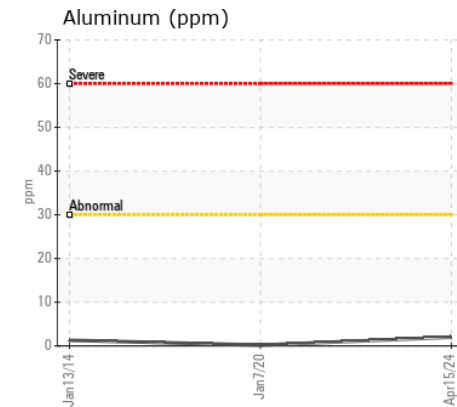
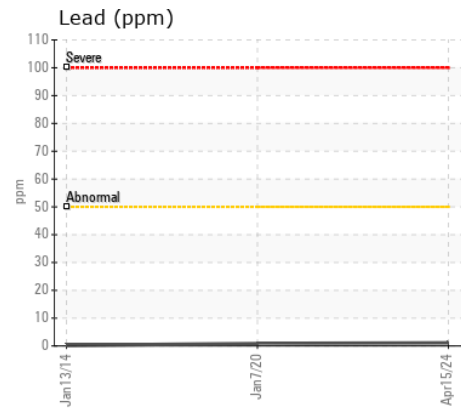
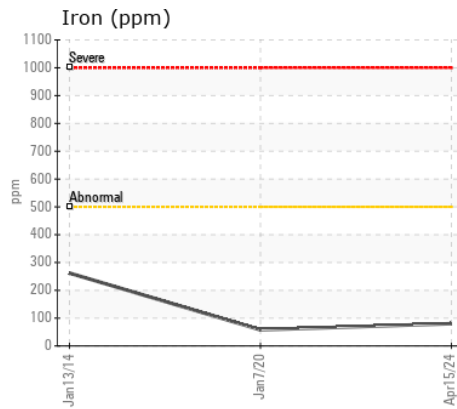
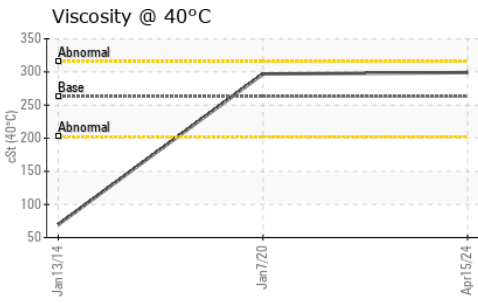
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>50	<b>5</b>	3	29
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	0	1
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>LIGHT</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	NEG

### FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		<b>0</b>	2	32
Boron	ppm	ASTM D5185m	400	<b>173</b>	117	97
Barium	ppm	ASTM D5185m	200	<b>1</b>	0	0
Molybdenum	ppm	ASTM D5185m	12	<b>2</b>	<1	0
Manganese	ppm	ASTM D5185m		<b>2</b>	1	11
Magnesium	ppm	ASTM D5185m	12	<b>10</b>	9	3
Calcium	ppm	ASTM D5185m	150	<b>207</b>	110	3784
Phosphorus	ppm	ASTM D5185m	1650	<b>1003</b>	839	1034
Zinc	ppm	ASTM D5185m	125	<b>104</b>	66	1469
Sulfur	ppm	ASTM D5185m	22500	<b>29291</b>	20515	11928
Visc @ 40°C	cSt	ASTM D445	263	<b>299</b>	297	69.69



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : VCP447092  
**Lab Number** : 06153491  
**Unique Number** : 10983569  
**Test Package** : MOB 1

**Received** : 18 Apr 2024  
**Tested** : 19 Apr 2024  
**Diagnosed** : 19 Apr 2024 - Wes Davis

**TRADEMARK METALS RECYCLING - SANFORD**  
 3301 W FL 46  
 SANFORD, FL  
 US 32771  
 Contact: RYAN BOWDEN

To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

T:  
 F: (407)321-0177