



# VOLVO

## OIL ANALYSIS REPORT

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



Area  
**[W02007862]**  
Machine Id  
**VOLVO EC480 210464**  
Component  
**Rear Left Final Drive**  
Fluid  
**MOBIL MOBILUBE HD 85W140 (--- GAL)**

### RECOMMENDATION

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP426356	---	---
Sample Date		Client Info		02 Jan 2024	---	---
Machine Age	hrs	Client Info		7506	---	---
Oil Age	hrs	Client Info		500	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		N/A	---	---
Sample Status				ABNORMAL	---	---

### WEAR

The copper level is abnormal. All other component wear rates are normal.

Iron	ppm	ASTM D5185m	>3360	837	---	---
Chromium	ppm	ASTM D5185m	>35	9	---	---
Nickel	ppm	ASTM D5185m	>8	4	---	---
Titanium	ppm	ASTM D5185m	>15	12	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m	>185	▲ 214	---	---
Lead	ppm	ASTM D5185m	>5	<1	---	---
Copper	ppm	ASTM D5185m	>80	▲ 186	---	---
Tin	ppm	ASTM D5185m	>8	9	---	---
Vanadium	ppm	ASTM D5185m		<1	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

### CONTAMINATION

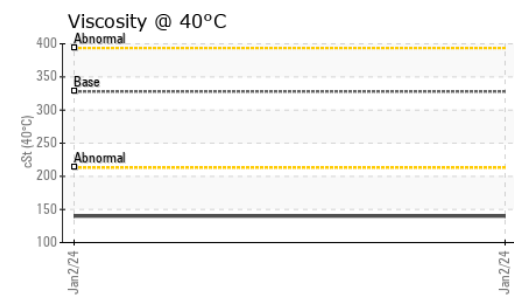
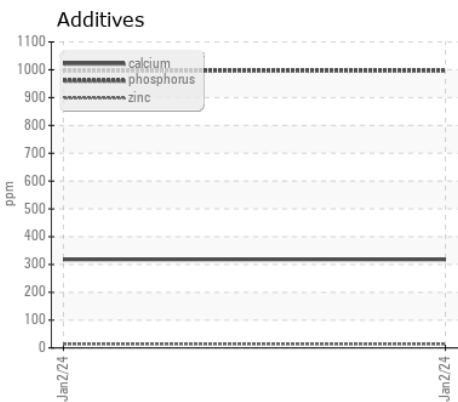
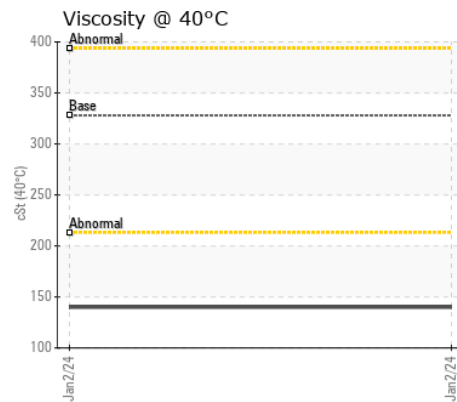
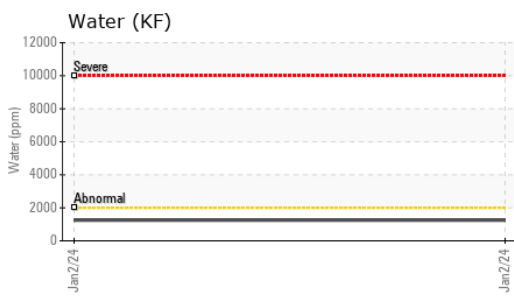
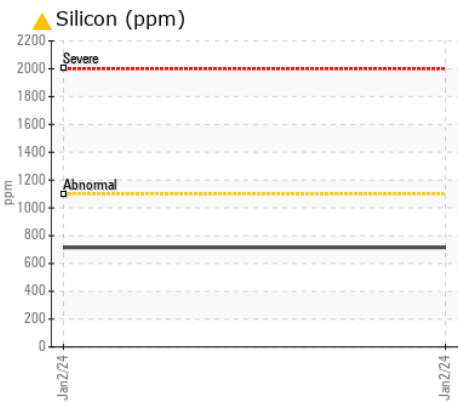
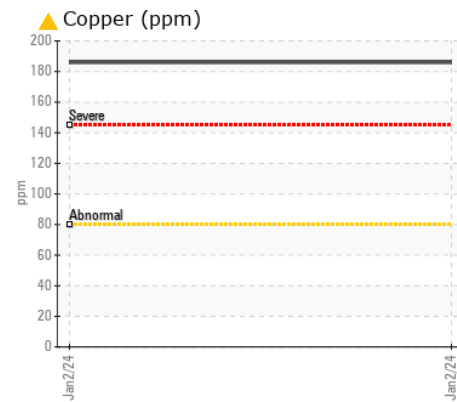
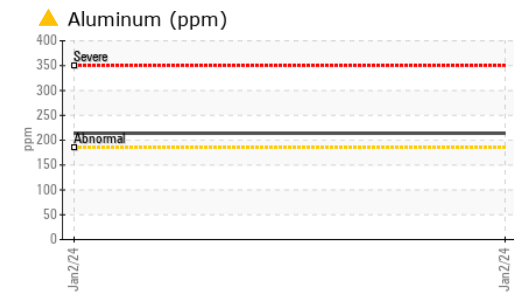
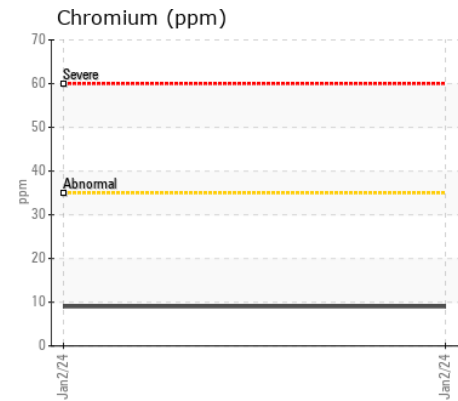
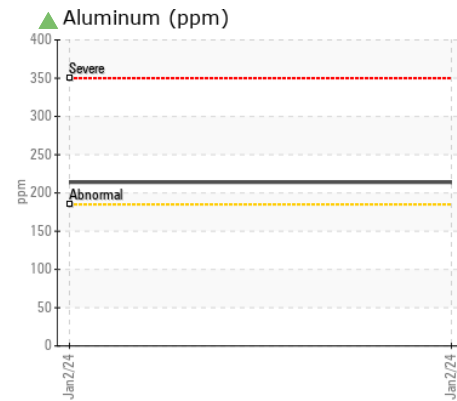
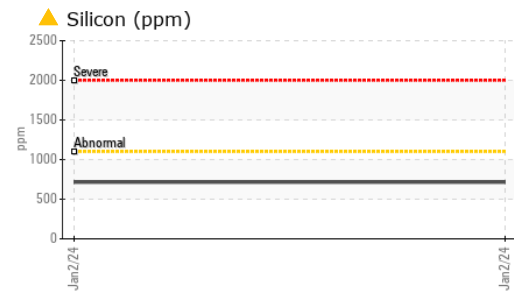
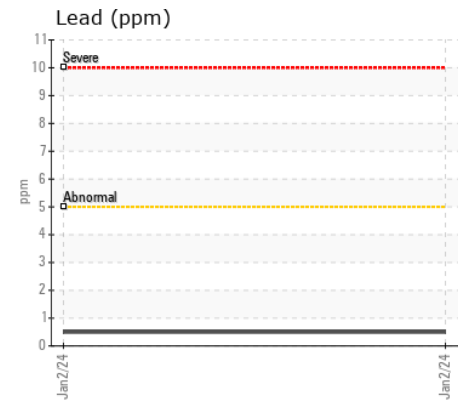
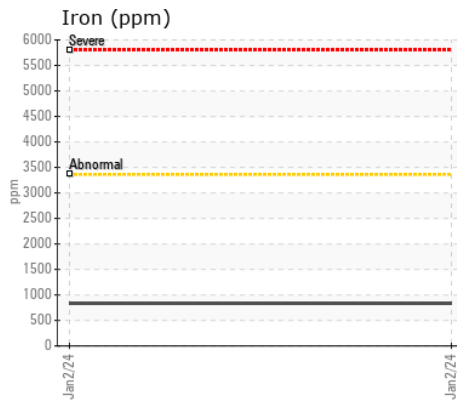
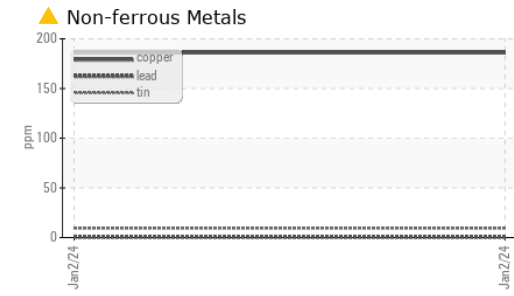
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>1100	▲ 715	---	---
Potassium	ppm	ASTM D5185m	>20	40	---	---
Water	%	ASTM D6304	>0.2	0.125	---	---
ppm Water	ppm	ASTM D6304	>2000	1250	---	---
Silt	scalar	*Visual	NONE	MODER	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	NORML	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>0.2	0.2%	---	---

### FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		29	---	---
Boron	ppm	ASTM D5185m		160	---	---
Barium	ppm	ASTM D5185m		8	---	---
Molybdenum	ppm	ASTM D5185m		<1	---	---
Manganese	ppm	ASTM D5185m		10	---	---
Magnesium	ppm	ASTM D5185m		187	---	---
Calcium	ppm	ASTM D5185m		318	---	---
Phosphorus	ppm	ASTM D5185m		997	---	---
Zinc	ppm	ASTM D5185m		14	---	---
Sulfur	ppm	ASTM D5185m		29964	---	---
Visc @ 40°C	cSt	ASTM D445	328	140	---	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : VCP426356 **Received** : 08 Jan 2024  
**Lab Number** : 06054340 **Diagnosed** : 10 Jan 2024  
**Unique Number** : 10820289 **Diagnostician** : Jonathan Hester  
**Test Package** : MOB 1 ( Additional Tests: KF )

**MCCLEUNG-LOGAN EQUIPMENT CO - MANASSAS**  
 8450 QUARRY ROAD  
 MANASSAS, VA  
 US 20110  
 Contact: MIKE MAYHUGH  
 MMAYHUGH@MCCLEUNG-LOGAN.COM  
 T: (703)393-7344  
 F: (703)393-7844

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)