



# VOLVO

## OIL ANALYSIS REPORT

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



Area  
**[W02006708]**  
Machine Id  
**VOLVO EC350 314263**  
Component  
**Hydraulic System**  
Fluid  
**MOBIL HYDRAULIC OIL AW 46 (--- GAL)**

### RECOMMENDATION

Oil and filter 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		<b>VCP388660</b>	---	---
Sample Date		Client Info		<b>24 Jan 2023</b>	---	---
Machine Age	hrs	Client Info		<b>1954</b>	---	---
Oil Age	hrs	Client Info		<b>2000</b>	---	---
Filter Age	hrs	Client Info		<b>0</b>	---	---
Oil Changed		Client Info		<b>Changed</b>	---	---
Filter Changed		Client Info		<b>Changed</b>	---	---
Sample Status				<b>NORMAL</b>	---	---

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>25	<b>3</b>	---	---
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	---	---
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	---	---
Titanium	ppm	ASTM D5185m		<b>0</b>	---	---
Silver	ppm	ASTM D5185m		<b>0</b>	---	---
Aluminum	ppm	ASTM D5185m	>20	<b>0</b>	---	---
Lead	ppm	ASTM D5185m	>20	<b>0</b>	---	---
Copper	ppm	ASTM D5185m	>150	<b>21</b>	---	---
Tin	ppm	ASTM D5185m	>10	<b>0</b>	---	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	---	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---

### CONTAMINATION

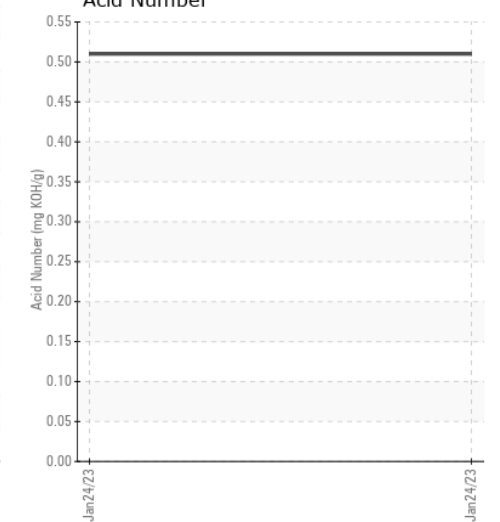
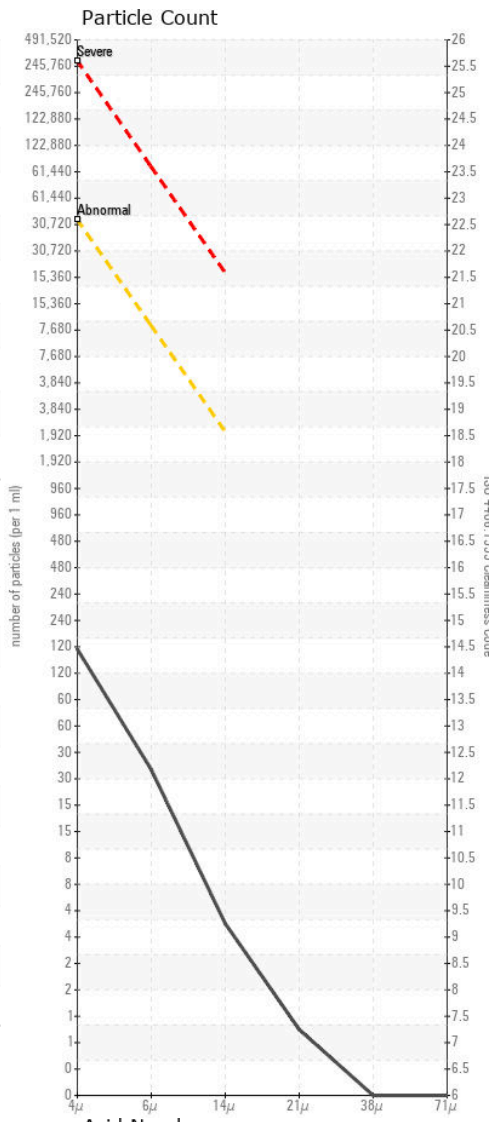
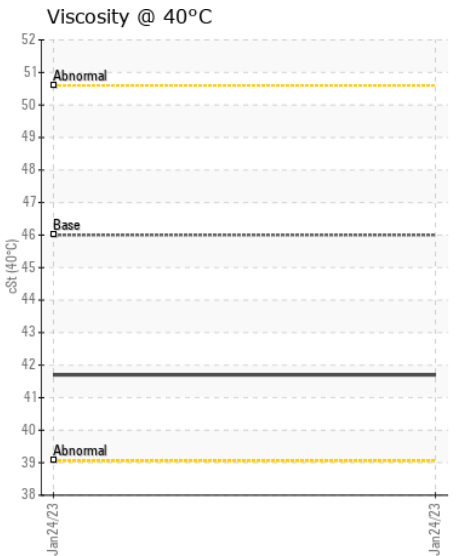
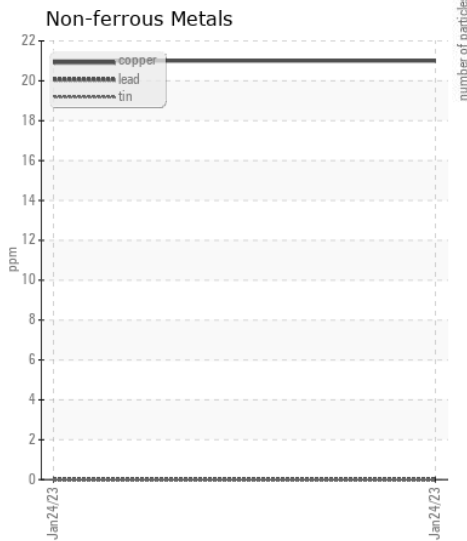
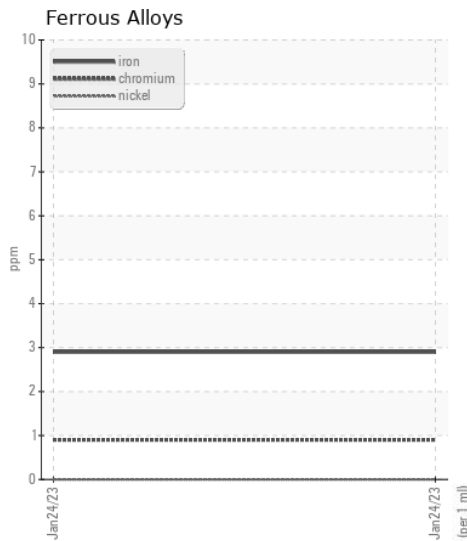
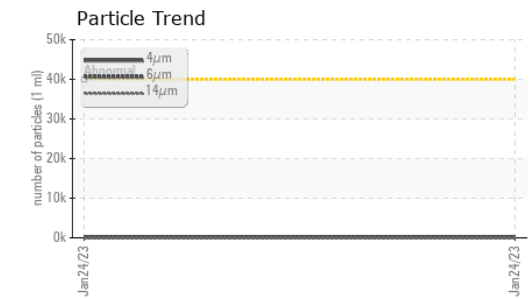
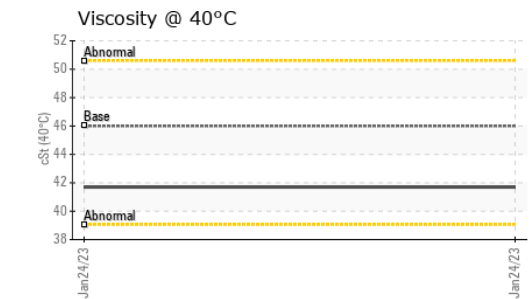
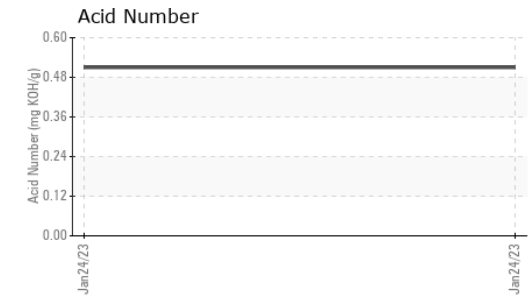
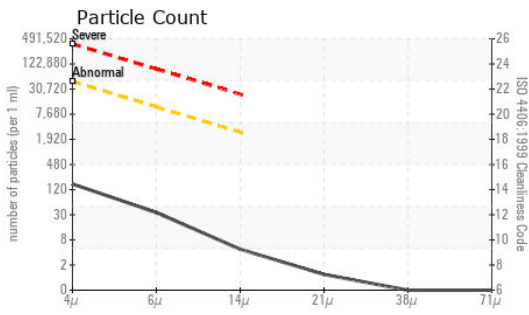
The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>50	<b>4</b>	---	---
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	---	---
Water		WC Method	>0.1	<b>NEG</b>	---	---
Particles >4µm		ASTM D7647	>40000	<b>145</b>	---	---
Particles >6µm		ASTM D7647	>10000	<b>30</b>	---	---
Particles >14µm		ASTM D7647	>2500	<b>4</b>	---	---
Particles >21µm		ASTM D7647	>640	<b>1</b>	---	---
Particles >38µm		ASTM D7647	>160	<b>0</b>	---	---
Particles >71µm		ASTM D7647	>40	<b>0</b>	---	---
Oil Cleanliness		ISO 4406 (c)	>22/20/18	<b>14/12/9</b>	---	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	---	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	---	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	---	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	---	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	---	---
Emulsified Water	scalar	*Visual	>0.1	<b>NEG</b>	---	---

### FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>0</b>	---	---
Boron	ppm	ASTM D5185m		<b>0</b>	---	---
Barium	ppm	ASTM D5185m		<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185m		<b>0</b>	---	---
Manganese	ppm	ASTM D5185m		<b>0</b>	---	---
Magnesium	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Calcium	ppm	ASTM D5185m		<b>77</b>	---	---
Phosphorus	ppm	ASTM D5185m		<b>378</b>	---	---
Zinc	ppm	ASTM D5185m		<b>500</b>	---	---
Sulfur	ppm	ASTM D5185m		<b>958</b>	---	---
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.51</b>	---	---
Visc @ 40°C	cSt	ASTM D445	46	<b>41.7</b>	---	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : VCP388660 **Received** : 31 Jan 2023  
**Lab Number** : 05754777 **Diagnosed** : 01 Feb 2023  
**Unique Number** : 10319384 **Diagnostician** : Angela Borella  
**Test Package** : MOB 2

**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)