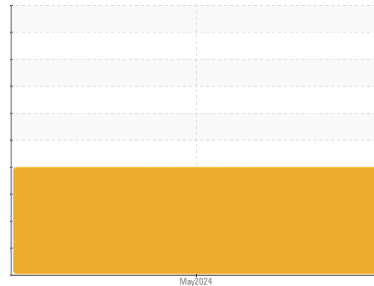


# PROBLEM SUMMARY

Machine Id  
**VOLVO EC480DHR 290018**  
 Component  
**Right Swing Drive**  
 Fluid  
**VOLVO PREMIUM GEAR OIL 85W-140 GL-5 (2 GAL)**

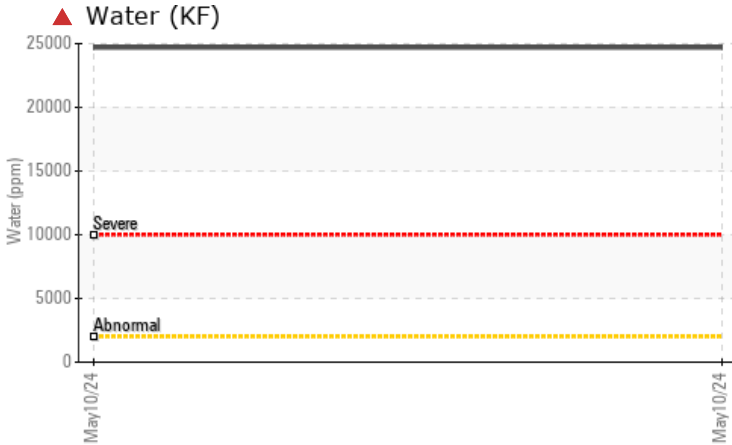
### Sample Rating Trend



**WATER**



## COMPONENT CONDITION SUMMARY



## RECOMMENDATION

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

## PROBLEMATIC TEST RESULTS

Sample Status				<b>SEVERE</b>	---	---
Water	%	ASTM D6304	>0.2	<b>▲ 2.47</b>	---	---
ppm Water	ppm	ASTM D6304	>2000	<b>▲ 24700</b>	---	---
Emulsified Water	scalar	*Visual	>0.2	<b>▲ 0.2%</b>	---	---

**Customer Id:** CELDIS  
**Sample No.:** ML0001350  
**Lab Number:** 06183182  
**Test Package:** CONST



To manage this report scan the QR code

To discuss the diagnosis or test data:  
 Sean Felton +1 919-379-4092  
[sfelton@wearcheckusa.com](mailto:sfelton@wearcheckusa.com)

To change component or sample information:  
 Customer Service +1 1-800-237-1369  
[customerservice@wearcheck.com](mailto:customerservice@wearcheck.com)

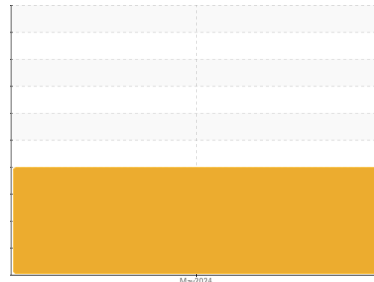
## RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Resample	---	---	?	We recommend an early resample to monitor this condition.
Check Water Access	---	---	?	We advise that you check for the source of water entry.

## HISTORICAL DIAGNOSIS

# OIL ANALYSIS REPORT

Sample Rating Trend



**WATER**



Machine Id  
**VOLVO EC480DHR 290018**

Component  
**Right Swing Drive**

Fluid  
**VOLVO PREMIUM GEAR OIL 85W-140 GL-5 (2 GAL)**

## DIAGNOSIS

### ▲ Recommendation

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

### Wear

All component wear rates are normal.

### ▲ Contamination

Appearance is milky. There is a high concentration of water present in the oil.

### Fluid Condition

The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>ML0001350</b>	---	---
Sample Date	Client Info			<b>10 May 2024</b>	---	---
Machine Age	hrs	Client Info		<b>3821</b>	---	---
Oil Age	hrs	Client Info		<b>3821</b>	---	---
Oil Changed	Client Info			<b>Changed</b>	---	---
Sample Status				<b>SEVERE</b>	---	---

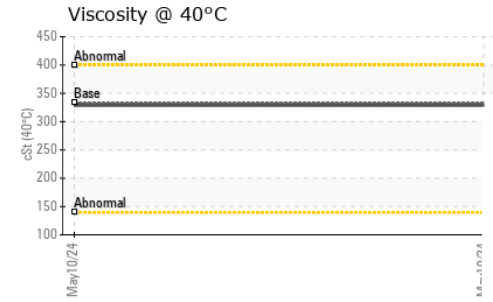
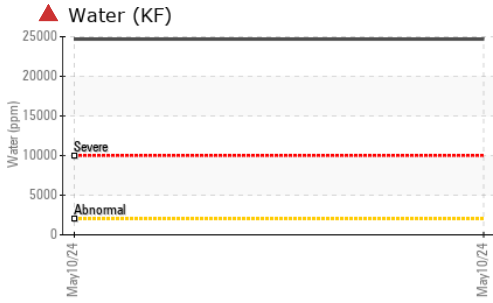
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>400	<b>150</b>	---	---
Chromium	ppm	ASTM D5185m	>10	<b>2</b>	---	---
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	---	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Silver	ppm	ASTM D5185m		<b>0</b>	---	---
Aluminum	ppm	ASTM D5185m	>25	<b>2</b>	---	---
Lead	ppm	ASTM D5185m	>50	<b>0</b>	---	---
Copper	ppm	ASTM D5185m	>200	<b>7</b>	---	---
Tin	ppm	ASTM D5185m	>10	<b>1</b>	---	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	---	---
Cadmium	ppm	ASTM D5185m		<b>0</b>	---	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	111	<b>149</b>	---	---
Barium	ppm	ASTM D5185m	0.0	<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185m	0.9	<b>&lt;1</b>	---	---
Manganese	ppm	ASTM D5185m	0.0	<b>3</b>	---	---
Magnesium	ppm	ASTM D5185m	39	<b>0</b>	---	---
Calcium	ppm	ASTM D5185m	93	<b>29</b>	---	---
Phosphorus	ppm	ASTM D5185m	920	<b>948</b>	---	---
Zinc	ppm	ASTM D5185m	104	<b>25</b>	---	---
Sulfur	ppm	ASTM D5185m	20179	<b>24051</b>	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	<b>10</b>	---	---
Sodium	ppm	ASTM D5185m		<b>2</b>	---	---
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	---	---
Water	%	ASTM D6304	>0.2	<b>▲ 2.47</b>	---	---
ppm Water	ppm	ASTM D6304	>2000	<b>▲ 24700</b>	---	---



VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---
Precipitate	scalar	*Visual	NONE	<b>NONE</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>● MILKY</b>	---	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	---	---
Emulsified Water	scalar	*Visual	>0.2	<b>▲ 0.2%</b>	---	---
Free Water	scalar	*Visual		<b>NEG</b>	---	---

# OIL ANALYSIS REPORT

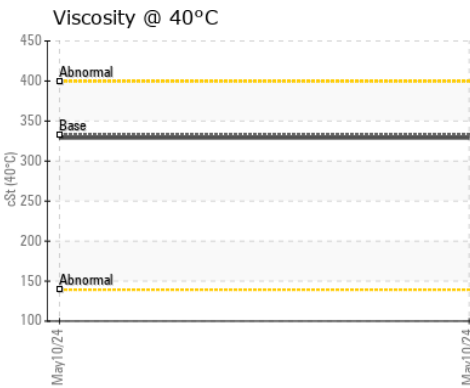
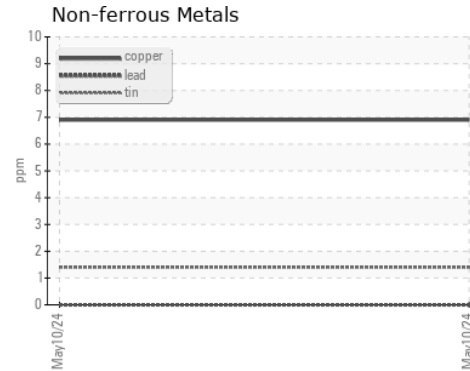
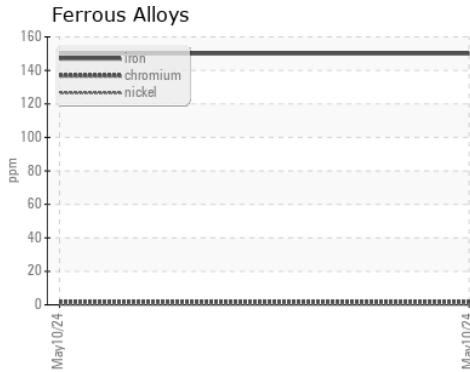


FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 333	<b>329</b>	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color				no image	no image
Bottom				no image	no image

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : ML0001350      **Received** : 17 May 2024  
**Lab Number** : **06183182**      **Tested** : 21 May 2024  
**Unique Number** : 11034508      **Diagnosed** : 21 May 2024 - Sean Felton  
**Test Package** : CONST ( Additional Tests: KF, PQ )

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)

**CELTIC DEMO**  
 2700 KAVERTON RD  
 DISTRICT HEIGHTS, MD  
 US 20747  
 Contact: ERICK SOLIS  
 ericksolis83@icloud.com

T:  
F: