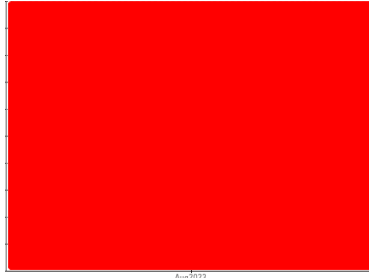


# PROBLEM SUMMARY

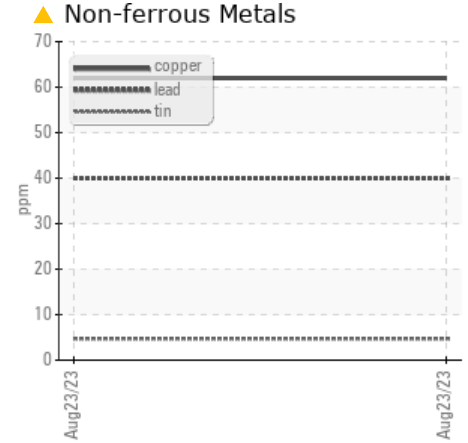
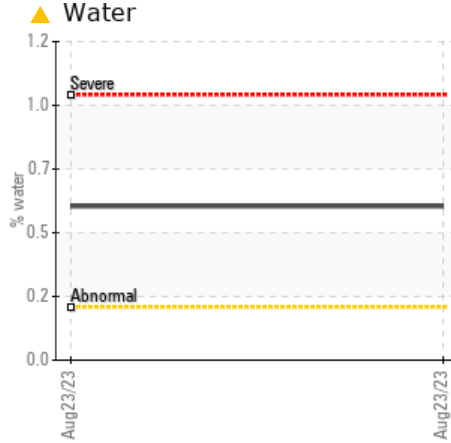
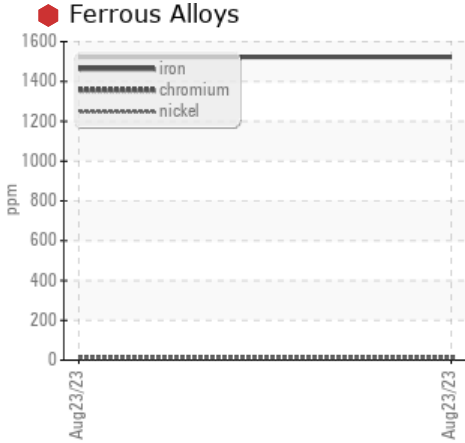
Sample Rating Trend

WEAR



Machine Id  
**VOLVO TRACTOR 26446 (S/N 4V4MC9EG3HN985335)**  
 Component  
**Differential**  
 Fluid  
**NOT GIVEN (--- GAL)**

## COMPONENT CONDITION SUMMARY



## RECOMMENDATION

We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

## PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	---	---
Iron	ppm	ASTM D5185m	>500	1523	---	---
Chromium	ppm	ASTM D5185m	>10	14	---	---
Nickel	ppm	ASTM D5185m	>10	11	---	---
Lead	ppm	ASTM D5185m	>25	40	---	---
Copper	ppm	ASTM D5185m	>100	62	---	---
Tin	ppm	ASTM D5185m	>10	5	---	---
Water	%	ASTM D6304	>.2	0.580	---	---
ppm Water	ppm	ASTM D6304	>2000	5800	---	---

Customer Id: PERDILSC  
 Sample No.: PCA0102799  
 Lab Number: 05939381  
 Test Package: FLEET



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
Inspect Wear Source	---	---	?	We advise that you inspect for the source(s) of wear.
Change Fluid	---	---	?	We recommend that you drain the oil from the component if this has not already been done.
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

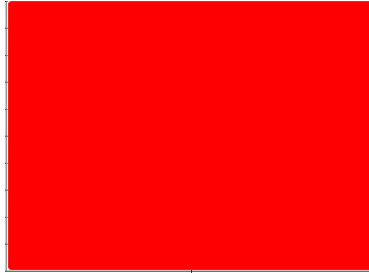
Sample Rating Trend

**WEAR**



Machine Id  
**VOLVO TRACTOR 26446 (S/N 4V4MC9EG3HN985335)**

Component  
**Differential**  
Fluid  
**NOT GIVEN (--- GAL)**



Aug 2023

## DIAGNOSIS

### Recommendation

We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

### Wear

Gear wear is indicated. Bearing and/or bushing wear is indicated.

### Contamination

There is a moderate concentration of water present in the oil.

### Fluid Condition

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>PCA0102799</b>	---	---
Sample Date	Client Info		<b>23 Aug 2023</b>	---	---
Machine Age	hrs	Client Info	<b>183043</b>	---	---
Oil Age	hrs	Client Info	<b>183043</b>	---	---
Oil Changed	Client Info		<b>N/A</b>	---	---
Sample Status			<b>SEVERE</b>	---	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >500	<b>1523</b>	---	---
Chromium	ppm	ASTM D5185m >10	<b>14</b>	---	---
Nickel	ppm	ASTM D5185m >10	<b>11</b>	---	---
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	---	---
Silver	ppm	ASTM D5185m	<b>0</b>	---	---
Aluminum	ppm	ASTM D5185m >25	<b>8</b>	---	---
Lead	ppm	ASTM D5185m >25	<b>40</b>	---	---
Copper	ppm	ASTM D5185m >100	<b>62</b>	---	---
Tin	ppm	ASTM D5185m >10	<b>5</b>	---	---
Vanadium	ppm	ASTM D5185m	<b>0</b>	---	---
Cadmium	ppm	ASTM D5185m	<b>&lt;1</b>	---	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>154</b>	---	---
Barium	ppm	ASTM D5185m	<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185m	<b>&lt;1</b>	---	---
Manganese	ppm	ASTM D5185m	<b>28</b>	---	---
Magnesium	ppm	ASTM D5185m	<b>10</b>	---	---
Calcium	ppm	ASTM D5185m	<b>36</b>	---	---
Phosphorus	ppm	ASTM D5185m	<b>1479</b>	---	---
Zinc	ppm	ASTM D5185m	<b>86</b>	---	---
Sulfur	ppm	ASTM D5185m	<b>29005</b>	---	---

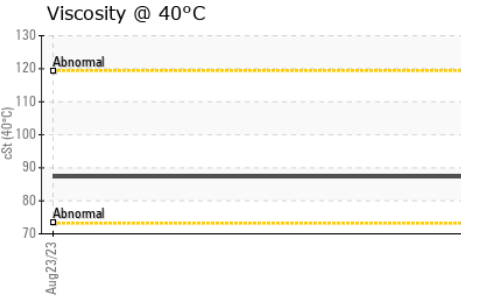
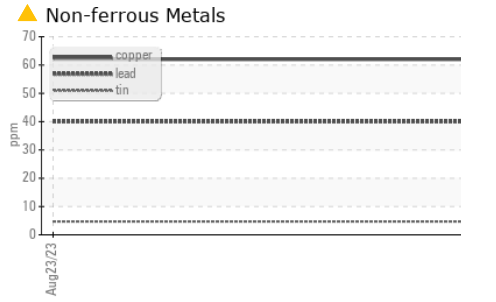
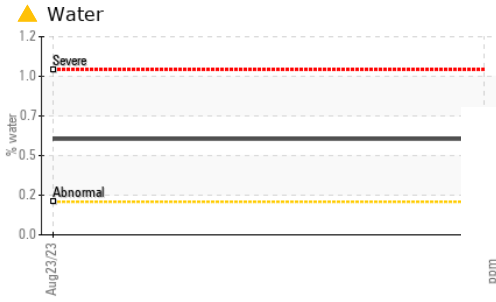
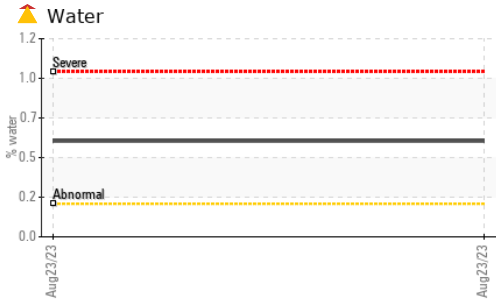
## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >75	<b>56</b>	---	---
Sodium	ppm	ASTM D5185m	<b>11</b>	---	---
Potassium	ppm	ASTM D5185m >20	<b>6</b>	---	---
Water	%	ASTM D6304 >.2	<b>0.580</b>	---	---
ppm Water	ppm	ASTM D6304 >2000	<b>5800</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>NORML</b>	---	---
Odor	scalar	*Visual NORML	<b>NORML</b>	---	---
Emulsified Water	scalar	*Visual >.2	<b>0.2%</b>	---	---
Free Water	scalar	*Visual	<b>NEG</b>	---	---

# OIL ANALYSIS REPORT

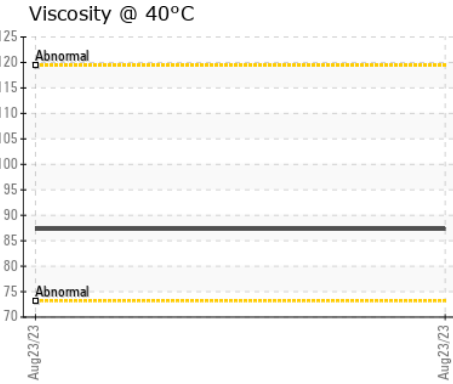
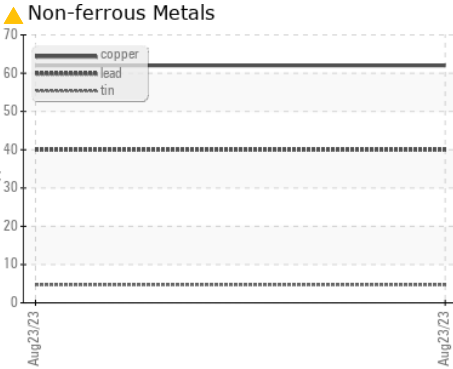
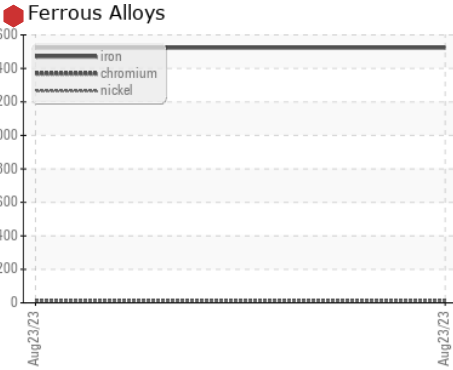


FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		<b>87.3</b>	---	---

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

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0102799 **Received** : 30 Aug 2023  
**Lab Number** : **05939381** **Diagnosed** : 01 Sep 2023  
**Unique Number** : 10629993 **Diagnostician** : Sean Felton  
**Test Package** : FLEET ( Additional Tests: KF )

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)

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