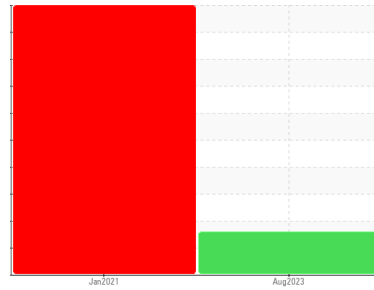




# PROBLEM SUMMARY

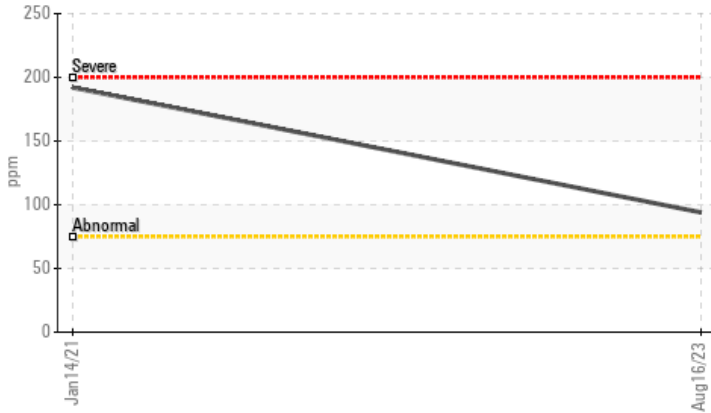
Sample Rating Trend



Machine Id  
**VOLVO 26441**  
 Component  
**Forward Differential**  
 Fluid  
**GEAR OIL SAE 80 (20 QTS)**

## COMPONENT CONDITION SUMMARY

▲ Silicon (ppm)



## RECOMMENDATION

No corrective action is recommended at this time.  
 Resample at the next service interval to monitor.

## PROBLEMATIC TEST RESULTS

Sample Status	ABNORMAL	SEVERE	---			
Silicon	ppm	ASTM D5185m	>75	▲ 94	▲ 192	---

Customer Id: PERDILSC  
 Sample No.: PCA0102771  
 Lab Number: 05928462  
 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data:  
 Don Baldrige +1  
[don.b505@comcast.net](mailto:don.b505@comcast.net)

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

## RECOMMENDED ACTIONS

*There are no recommended actions for this sample.*

## HISTORICAL DIAGNOSIS

**14 Jan 2021 Diag: Don Baldrige**

### WEAR



We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Bearing and/or bushing wear is indicated. Gear wear is indicated. Elemental level of silicon (Si) above normal indicating ingress of dirt/seal material. The condition of the oil is acceptable for the time in service.

view report



# OIL ANALYSIS REPORT

Sample Rating Trend



**DIRT**



Machine Id  
**VOLVO 26441**  
 Component  
**Forward Differential**  
 Fluid  
**GEAR OIL SAE 80 (20 QTS)**

## DIAGNOSIS

### ▲ Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### ▲ Contamination

Elemental level of silicon (Si) above normal.

### Fluid Condition

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

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>PCA0102771</b>	PCA0026307	---
Sample Date	Client Info		<b>16 Aug 2023</b>	14 Jan 2021	---
Machine Age	hrs	Client Info	<b>386688</b>	0	---
Oil Age	hrs	Client Info	<b>175368</b>	0	---
Oil Changed	Client Info		<b>N/A</b>	N/A	---
Sample Status			<b>ABNORMAL</b>	SEVERE	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >500	<b>341</b>	▲ 664	---
Chromium	ppm	ASTM D5185m >10	<b>3</b>	6	---
Nickel	ppm	ASTM D5185m >10	<b>1</b>	2	---
Titanium	ppm	ASTM D5185m	<b>1</b>	<1	---
Silver	ppm	ASTM D5185m	<b>0</b>	<1	---
Aluminum	ppm	ASTM D5185m >25	<b>4</b>	2	---
Lead	ppm	ASTM D5185m >25	<b>2</b>	▲ 46	---
Copper	ppm	ASTM D5185m >100	<b>41</b>	● 434	---
Tin	ppm	ASTM D5185m >10	<b>3</b>	▲ 19	---
Antimony	ppm	ASTM D5185m >5	---	7	---
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	---
Cadmium	ppm	ASTM D5185m	<b>0</b>	<1	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 400	<b>96</b>	107	---
Barium	ppm	ASTM D5185m 200	<b>3</b>	3	---
Molybdenum	ppm	ASTM D5185m 12	<b>0</b>	0	---
Manganese	ppm	ASTM D5185m	<b>8</b>	20	---
Magnesium	ppm	ASTM D5185m 12	<b>6</b>	3	---
Calcium	ppm	ASTM D5185m 150	<b>355</b>	11	---
Phosphorus	ppm	ASTM D5185m 1650	<b>946</b>	1426	---
Zinc	ppm	ASTM D5185m 125	<b>9</b>	44	---
Sulfur	ppm	ASTM D5185m 22500	<b>16421</b>	22325	---

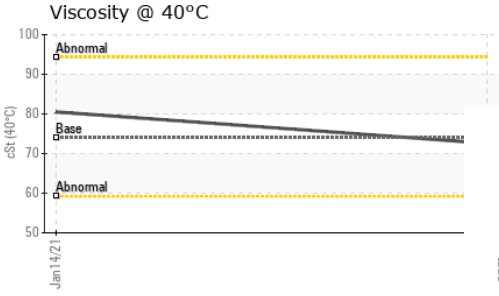
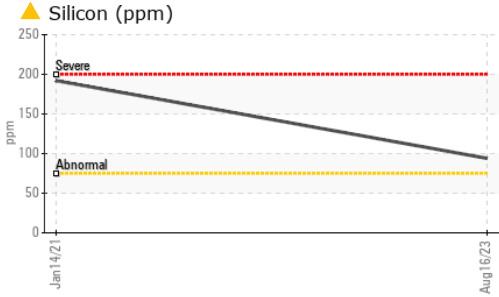
## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >75	▲ <b>94</b>	▲ 192	---
Sodium	ppm	ASTM D5185m	<b>4</b>	13	---
Potassium	ppm	ASTM D5185m >20	< <b>1</b>	0	---

## VISUAL

	method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	<b>NONE</b>	MODER	---
Yellow Metal	scalar	*Visual NONE	<b>NONE</b>	NONE	---
Precipitate	scalar	*Visual NONE	<b>NONE</b>	NONE	---
Silt	scalar	*Visual NONE	<b>MODER</b>	NONE	---
Debris	scalar	*Visual NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	*Visual NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual >.2	<b>NEG</b>	NEG	---
Free Water	scalar	*Visual	<b>NEG</b>	NEG	---

# OIL ANALYSIS REPORT



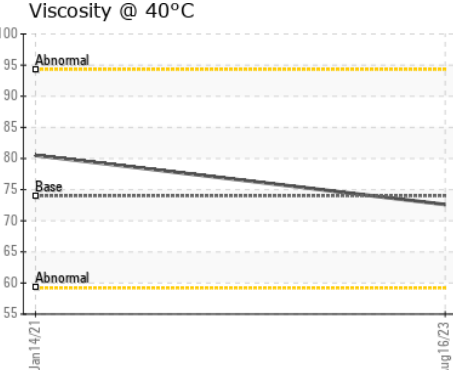
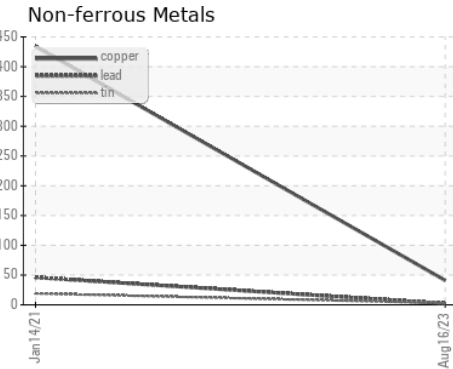
### FLUID PROPERTIES

method	limit/base	current	history1	history2	
Visc @ 40°C	cSt ASTM D445	74	<b>72.6</b>	80.5	---

### SAMPLE IMAGES

method	limit/base	current	history1	history2	
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.** : PCA0102771 **Received** : 18 Aug 2023  
**Lab Number** : **05928462** **Diagnosed** : 21 Aug 2023  
**Unique Number** : 10608409 **Diagnostician** : Don Baldrige  
**Test Package** : FLEET

**PERDUE FARMS - DILLON**  
 2047 HWY 9 WEST  
 DILLON, SC  
 US 29536  
 Contact: KEVIN HOOKS  
 kevin.hooks@perdue.com  
 T: (843)841-8069  
 F: (843)841-8070

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)