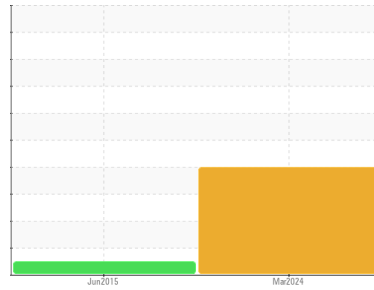


# OIL ANALYSIS REPORT

## Sample Rating Trend



Machine Id  
**VOLVO VLN630 7952 (S/N 4V4ML9EG7EN173869)**  
 Component  
**Front Differential**  
 Fluid  
**CASTROL SYNTEC FULL SYNTHETIC 75W90 (--- QTS)**

### DIAGNOSIS

- Recommendation**  
We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor.
- Wear**  
Bearing and/or gear wear is indicated.
- Contamination**  
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.
- 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>PCA0106096</b>	PCAMF012892	---
Sample Date	Client Info		<b>04 Mar 2024</b>	26 Jun 2015	---
Machine Age	mls	Client Info	<b>437857</b>	0	---
Oil Age	mls	Client Info	<b>0</b>	0	---
Oil Changed	Client Info		<b>Not Chngd</b>	Changed	---
Sample Status			<b>ABNORMAL</b>	NORMAL	---

### CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>.2	<b>NEG</b>	NEG	---

### WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >500	<b>▲ 831</b>	238	---
Chromium	ppm	ASTM D5185m >10	<b>7</b>	2	---
Nickel	ppm	ASTM D5185m >10	<b>4</b>	1	---
Titanium	ppm	ASTM D5185m	<b>1</b>	0	---
Silver	ppm	ASTM D5185m	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m >25	<b>● 12</b>	<1	---
Lead	ppm	ASTM D5185m >25	<b>11</b>	11	---
Copper	ppm	ASTM D5185m >100	<b>▲ 104</b>	95	---
Tin	ppm	ASTM D5185m >10	<b>8</b>	10	---
Antimony	ppm	ASTM D5185m >5	<b>---</b>	0	---
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	0	---
Cadmium	ppm	ASTM D5185m	<b>&lt;1</b>	0	---

### ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>230</b>	220	---
Barium	ppm	ASTM D5185m	<b>2</b>	0	---
Molybdenum	ppm	ASTM D5185m	<b>1</b>	0	---
Manganese	ppm	ASTM D5185m	<b>16</b>	7	---
Magnesium	ppm	ASTM D5185m	<b>11</b>	0	---
Calcium	ppm	ASTM D5185m	<b>31</b>	4	---
Phosphorus	ppm	ASTM D5185m	<b>1543</b>	1348	---
Zinc	ppm	ASTM D5185m	<b>38</b>	15	---
Sulfur	ppm	ASTM D5185m	<b>26116</b>	31771	---

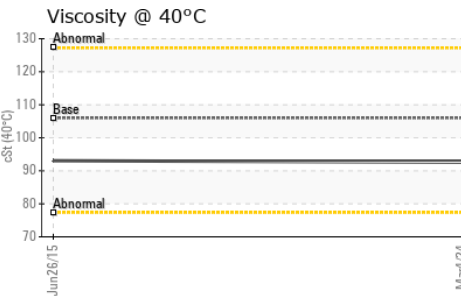
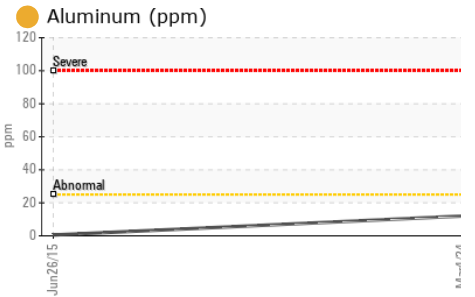
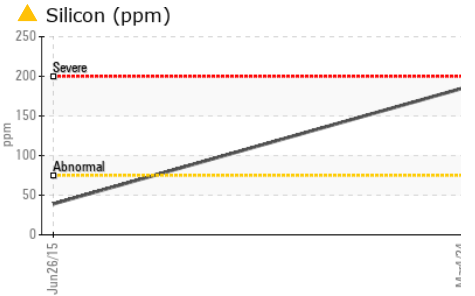
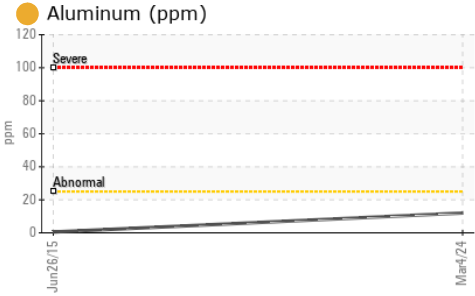
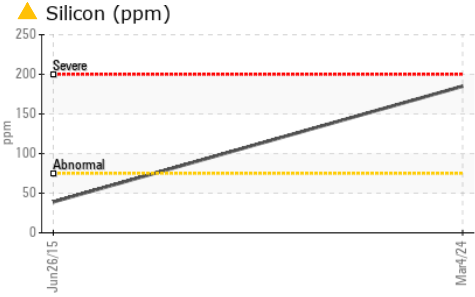
### CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >75	<b>▲ 185</b>	39	---
Sodium	ppm	ASTM D5185m	<b>19</b>	9	---
Potassium	ppm	ASTM D5185m >20	<b>11</b>	9	---

### VISUAL

	method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	<b>NONE</b>	LIGHT	---
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>	LIGHT	---
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

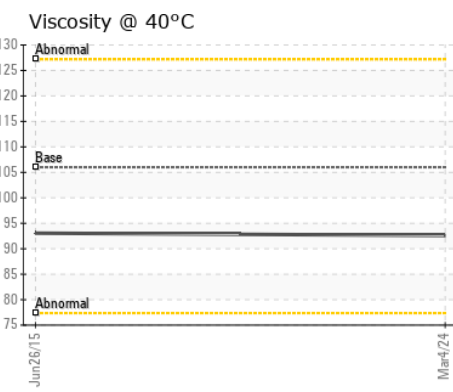
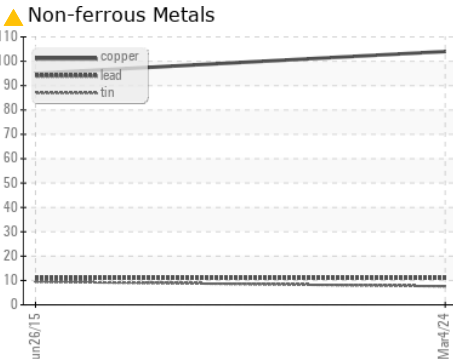


FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	106	<b>92.6</b>	93.06	---

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.** : PCA0106096  
**Lab Number** : 06174462  
**Unique Number** : 11020515  
**Test Package** : FLEET

**Received** : 09 May 2024  
**Tested** : 10 May 2024  
**Diagnosed** : 13 May 2024 - Don Baldrige

**PERDUE FARMS - BRIDGEVILLE**  
 8634 E NEWTON RD  
 BRIDGEVILLE, DE  
 US 19933

Contact: ROBERT LOCKWOOD  
 robertlockwood@perdue.com  
 T: (302)855-5635

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)

F: