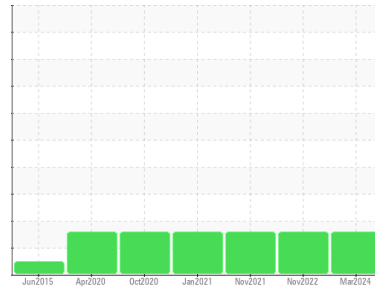


# OIL ANALYSIS REPORT

## Sample Rating Trend



Machine Id  
**VOLVO VLN630 7952 (S/N 4V4ML9EG7EN173869)**  
 Component  
**Rear Differential**  
 Fluid  
**CASTROL SYNTEC FULL SYNTHETIC 75W90 (--- 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 indicating ingress of dirt/seal material.

**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>PCA0106095</b>	PCA0085298	PCA0061649
Sample Date	Client Info			<b>04 Mar 2024</b>	30 Nov 2022	22 Nov 2021
Machine Age	mls	Client Info		<b>437857</b>	383417	368248
Oil Age	mls	Client Info		<b>0</b>	383417	354129
Oil Changed	Client Info			<b>Not Chngd</b>	Not Chngd	Not Chngd
Sample Status				<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

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

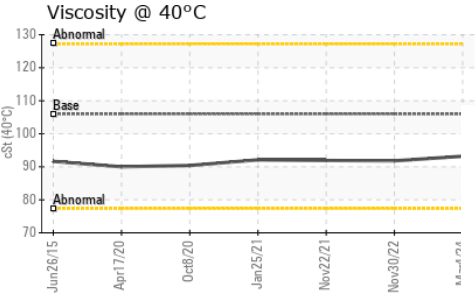
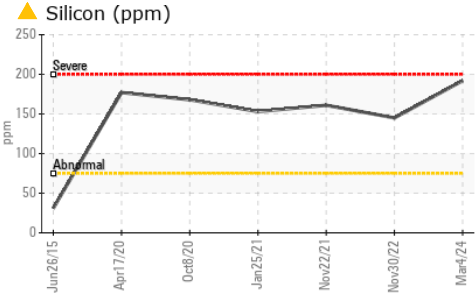
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	<b>499</b>	377	364
Chromium	ppm	ASTM D5185m	>10	<b>5</b>	4	4
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m		<b>0</b>	0	3
Aluminum	ppm	ASTM D5185m	>25	<b>10</b>	8	9
Lead	ppm	ASTM D5185m	>25	<b>&lt;1</b>	0	<1
Copper	ppm	ASTM D5185m	>100	<b>7</b>	4	4
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	1	<1
Antimony	ppm	ASTM D5185m	>5	<b>---</b>	---	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Cadmium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<b>190</b>	148	157
Barium	ppm	ASTM D5185m		<b>4</b>	0	1
Molybdenum	ppm	ASTM D5185m		<b>0</b>	<1	<1
Manganese	ppm	ASTM D5185m		<b>7</b>	5	6
Magnesium	ppm	ASTM D5185m		<b>7</b>	7	6
Calcium	ppm	ASTM D5185m		<b>25</b>	22	19
Phosphorus	ppm	ASTM D5185m		<b>1494</b>	1369	1297
Zinc	ppm	ASTM D5185m		<b>29</b>	4	24
Sulfur	ppm	ASTM D5185m		<b>25574</b>	25056	22402

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	<b>▲ 192</b>	▲ 145	▲ 161
Sodium	ppm	ASTM D5185m		<b>12</b>	11	11
Potassium	ppm	ASTM D5185m	>20	<b>6</b>	4	2

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

# OIL ANALYSIS REPORT

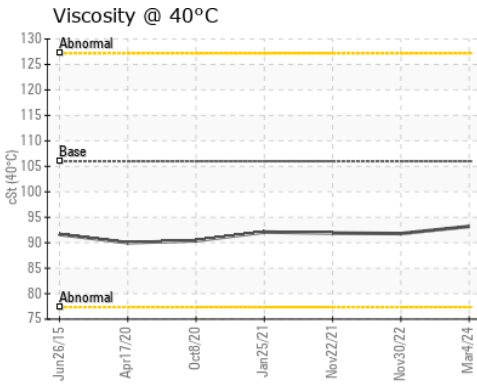
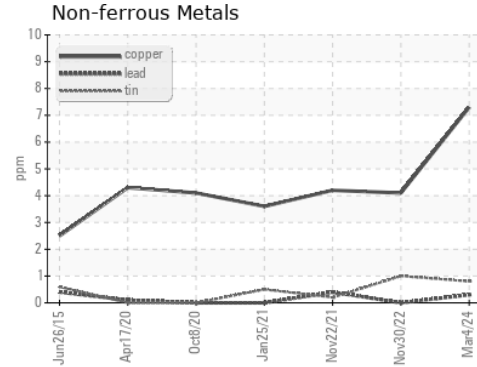
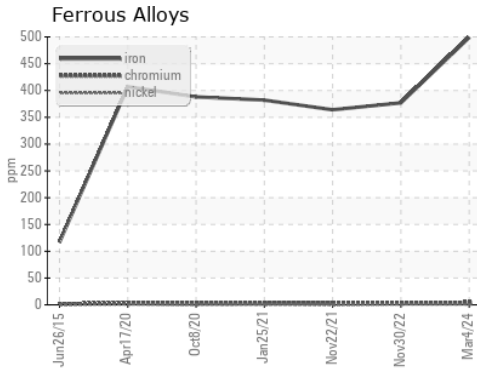


FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	106	<b>93.2</b>	91.8	91.9

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0106095  
**Lab Number** : 06174463  
**Unique Number** : 11020516  
**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: GEORGE LACATES

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)

T:  
F: