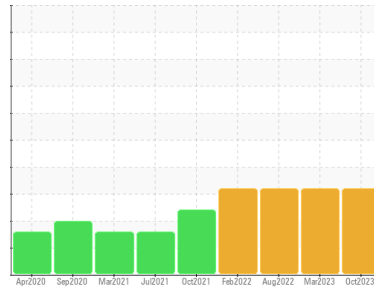


# OIL ANALYSIS REPORT

## Sample Rating Trend



**DIRT**



Machine Id  
**VOLVO 26422**

Component  
**Front Differential**

Fluid  
**PETRO CANADA TRAXON 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

Gear wear is indicated.

### 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>PCA0105543</b>	PCA0092266	PCA0079374	
Sample Date	Client Info	<b>09 Oct 2023</b>	13 Mar 2023	25 Aug 2022	
Machine Age	mls	Client Info	<b>582817</b>	532208	506715
Oil Age	mls	Client Info	<b>825001</b>	0	506715
Oil Changed	Client Info	<b>N/A</b>	Not Changd	N/A	
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>▲ 630</b>	▲ 552	▲ 655
Chromium	ppm	ASTM D5185m	>10	<b>5</b>	4	4
Nickel	ppm	ASTM D5185m	>10	<b>▲ 16</b>	▲ 15	▲ 13
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>13</b>	13	13
Lead	ppm	ASTM D5185m	>25	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>100	<b>5</b>	4	4
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Cadmium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0

## ADDITIVES

method	limit/base	current	history1	history2		
Boron	ppm	ASTM D5185m	328	<b>190</b>	158	187
Barium	ppm	ASTM D5185m	1	<b>3</b>	0	2
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Manganese	ppm	ASTM D5185m		<b>14</b>	13	13
Magnesium	ppm	ASTM D5185m	1	<b>9</b>	10	6
Calcium	ppm	ASTM D5185m	7	<b>25</b>	26	1
Phosphorus	ppm	ASTM D5185m	1145	<b>1583</b>	1333	1392
Zinc	ppm	ASTM D5185m	3	<b>50</b>	45	38
Sulfur	ppm	ASTM D5185m	17909	<b>27536</b>	23302	27746

## CONTAMINANTS

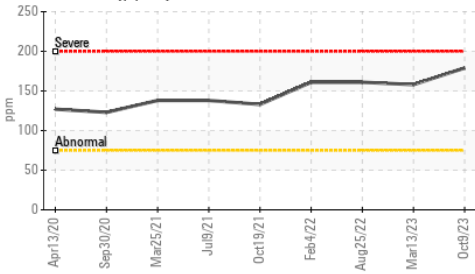
method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185m	>75	<b>▲ 179</b>	▲ 158	▲ 161
Sodium	ppm	ASTM D5185m		<b>17</b>	16	15
Potassium	ppm	ASTM D5185m	>20	<b>11</b>	8	5

## VISUAL

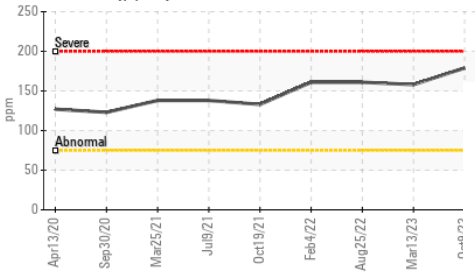
method	limit/base	current	history1	history2		
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
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

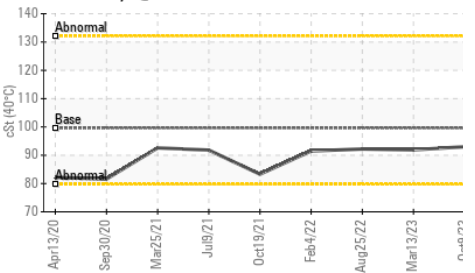
▲ Silicon (ppm)



▲ Silicon (ppm)



Viscosity @ 40°C



**FLUID PROPERTIES**    method    limit/base    current    history1    history2

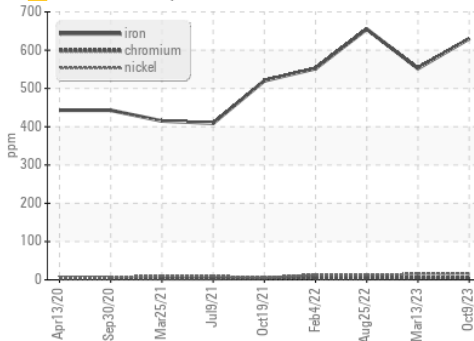
Visc @ 40°C    cSt    ASTM D445    99.6    **93.0**    91.9    92.2

**SAMPLE IMAGES**    method    limit/base    current    history1    history2

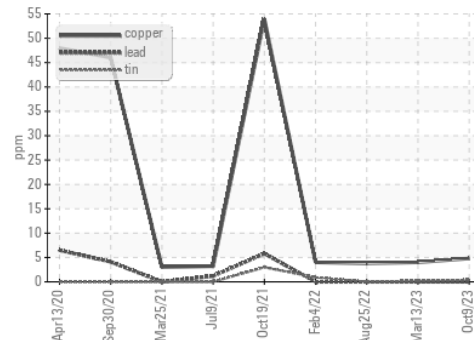
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Bottom	no image	no image	no image

**GRAPHS**

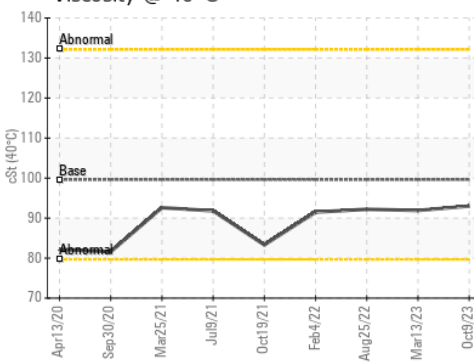
▲ Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0105543    **Received** : 09 May 2024  
**Lab Number** : 06174493    **Tested** : 10 May 2024  
**Unique Number** : 11020546    **Diagnosed** : 13 May 2024 - Don Baldrige  
**Test Package** : FLEET

**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: