

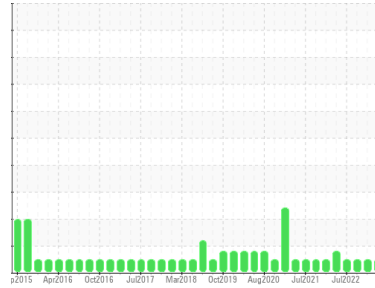
# OIL ANALYSIS REPORT

## Sample Rating Trend

**NORMAL**



Area  
**FLEET**  
Machine Id  
**VOLVO 26323**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON SHP 10W30 (36 QTS)**



## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>PCA0101172</b>	PCA0076935	PCA0079847
Sample Date	Client Info		<b>27 Aug 2023</b>	09 Dec 2022	09 Sep 2022
Machine Age	mls	Client Info	<b>860087</b>	806661	781582
Oil Age	mls	Client Info	<b>15000</b>	40000	20000
Oil Changed	Client Info		<b>Changed</b>	Changed	Not Changed
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>6.0	<b>&lt;1.0</b>	<1.0	<1.0
Glycol	WC Method		<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	<b>24</b>	36	16
Chromium	ppm	ASTM D5185m >20	<b>&lt;1</b>	1	<1
Nickel	ppm	ASTM D5185m >2	<b>&lt;1</b>	<1	0
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	8	8
Silver	ppm	ASTM D5185m >2	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m >25	<b>7</b>	8	4
Lead	ppm	ASTM D5185m >40	<b>0</b>	2	<1
Copper	ppm	ASTM D5185m >330	<b>&lt;1</b>	2	1
Tin	ppm	ASTM D5185m >15	<b>&lt;1</b>	1	<1
Vanadium	ppm	ASTM D5185m	<b>0</b>	<1	<1
Cadmium	ppm	ASTM D5185m	<b>0</b>	<1	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 2	<b>2</b>	3	4
Barium	ppm	ASTM D5185m 0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m 50	<b>69</b>	53	51
Manganese	ppm	ASTM D5185m 0	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m 950	<b>1039</b>	836	825
Calcium	ppm	ASTM D5185m 1050	<b>1180</b>	1161	1143
Phosphorus	ppm	ASTM D5185m 995	<b>1090</b>	969	958
Zinc	ppm	ASTM D5185m 1180	<b>1329</b>	1192	1187
Sulfur	ppm	ASTM D5185m 2600	<b>3491</b>	3143	3302

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>6</b>	7	5
Sodium	ppm	ASTM D5185m	<b>11</b>	22	10
Potassium	ppm	ASTM D5185m >20	<b>&lt;1</b>	3	2

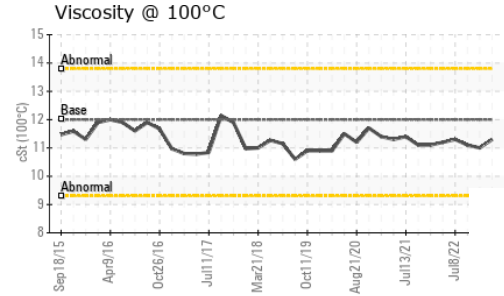
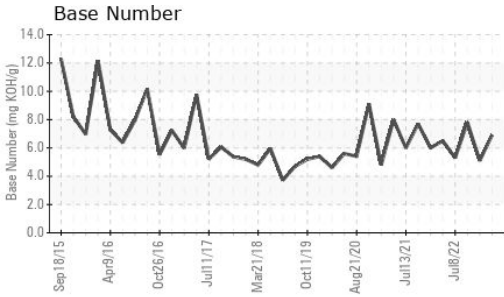
## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>0.6</b>	0.8	0.5
Nitration	Abs/cm	*ASTM D7624 >20	<b>8.8</b>	10.8	9.5
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>20.4</b>	25.3	22.1

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>16.7</b>	21.3	17.8
Base Number (BN)	mg KOH/g	ASTM D2896	<b>6.9</b>	5.1	7.8

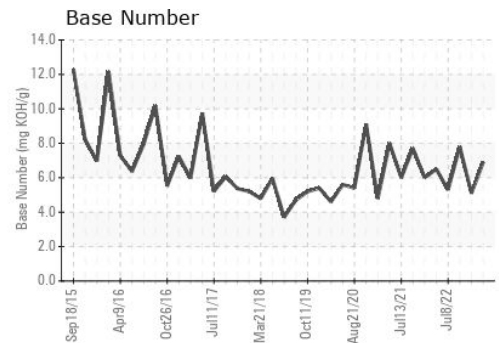
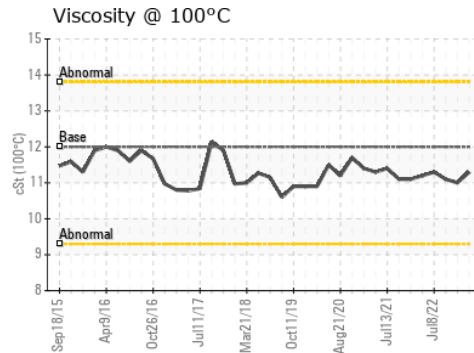
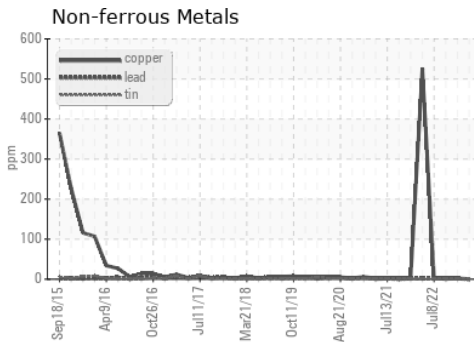
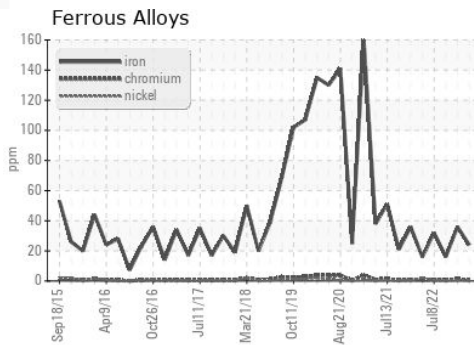
# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D445	12.00	<b>11.3</b>	11.0	11.1

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0101172  
**Lab Number** : **05940572**  
**Unique Number** : 10631184  
**Test Package** : FLEET

**PERDUE FARMS - SALISBURY**  
 7036 ZION CHURCH ROAD  
 SALISBURY, MD  
 US 21802  
 Contact: RICHARD O'NEAL  
 richard.oneal@perdue.com  
 T: (410)543-3628  
 F: (410)341-2164

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)