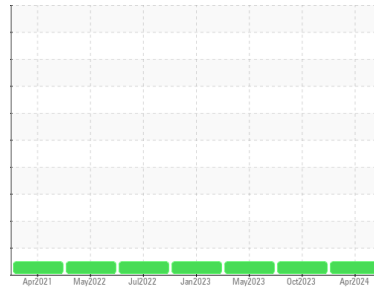


# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Machine Id  
**2026776**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SHP 10W30 (--- QTS)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

### 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>PCA0111492</b>	PCA0107906	PCA0097132
Sample Date	Client Info			<b>15 Apr 2024</b>	25 Oct 2023	12 May 2023
Machine Age	mls Client Info			<b>214501</b>	190520	166696
Oil Age	mls Client Info			<b>24000</b>	11923	22662
Oil Changed	Client Info			<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method	>5		<b>&lt;1.0</b>	<1.0	<1.0
Water	WC Method	>0.2		<b>NEG</b>	NEG	NEG
Glycol	WC Method			<b>NEG</b>	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	<b>26</b>	18	17
Chromium	ppm	ASTM D5185m	>20	<b>1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>4	<b>2</b>	<1	1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m	>3	<b>&lt;1</b>	0	<1
Aluminum	ppm	ASTM D5185m	>20	<b>3</b>	3	3
Lead	ppm	ASTM D5185m	>40	<b>3</b>	1	1
Copper	ppm	ASTM D5185m	>330	<b>9</b>	6	6
Tin	ppm	ASTM D5185m	>15	<b>2</b>	1	1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Cadmium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	<b>0</b>	2	1
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	50	<b>63</b>	56	56
Manganese	ppm	ASTM D5185m	0	<b>2</b>	<1	<1
Magnesium	ppm	ASTM D5185m	950	<b>904</b>	866	958
Calcium	ppm	ASTM D5185m	1050	<b>1083</b>	1023	1129
Phosphorus	ppm	ASTM D5185m	995	<b>1010</b>	889	960
Zinc	ppm	ASTM D5185m	1180	<b>1202</b>	1161	1290
Sulfur	ppm	ASTM D5185m	2600	<b>3031</b>	2506	3388

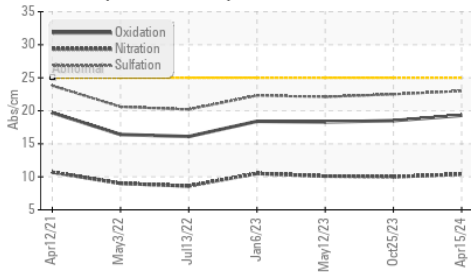
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>7</b>	5	5
Sodium	ppm	ASTM D5185m		<b>10</b>	9	12
Potassium	ppm	ASTM D5185m	>20	<b>4</b>	1	3

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	<b>0.4</b>	0.4	0.4
Nitration	Abs/cm	*ASTM D7624	>20	<b>10.4</b>	10.0	10.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>23.0</b>	22.5	22.1

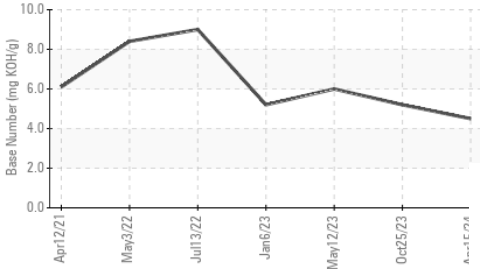
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>19.3</b>	18.5	18.3
Base Number (BN)	mg KOH/g	ASTM D2896		<b>4.5</b>	5.2	6.0

# OIL ANALYSIS REPORT

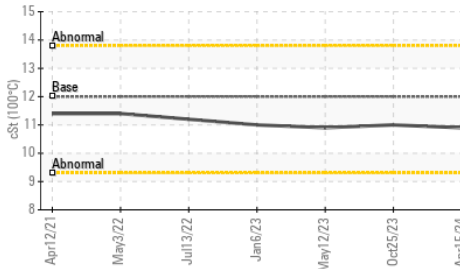
**FT-IR (Direct Trend)**



**Base Number**



**Viscosity @ 100°C**

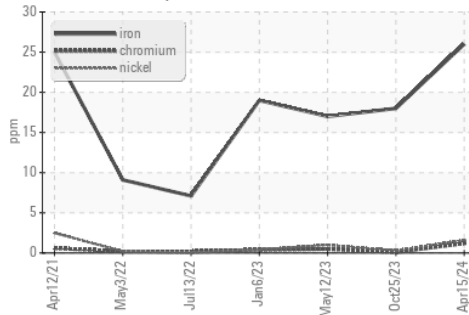


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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

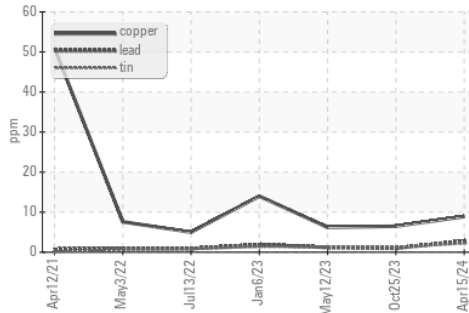
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	12.00	10.9	11.0

## GRAPHS

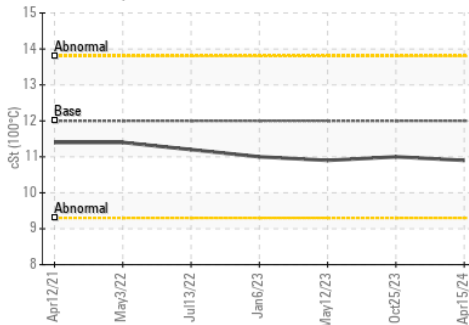
**Ferrous Alloys**



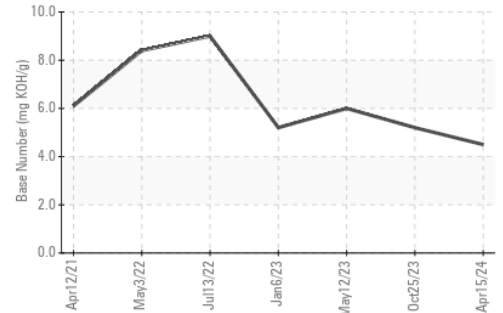
**Non-ferrous Metals**



**Viscosity @ 100°C**



**Base Number**



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0111492      **Received** : 18 Apr 2024  
**Lab Number** : **06152775**      **Tested** : 18 Apr 2024  
**Unique Number** : 10982853      **Diagnosed** : 18 Apr 2024 - Wes Davis  
**Test Package** : FLEET

**PERDUE FARMS - Lewiston**  
 210 GRIFFINS QUARTER RD  
 LEWISTON, NC  
 US 27849  
 Contact: NELSON WALLACE  
 nelson.wallace2@perdue.com

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)