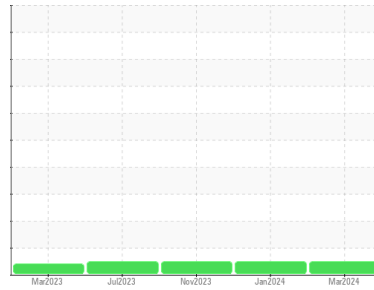


# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Machine Id  
**2126911**  
 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>PCA0114779</b>	PCA0114803	PCA0106356
Sample Date	Client Info			<b>27 Mar 2024</b>	28 Jan 2024	13 Nov 2023
Machine Age	mls	Client Info		<b>0</b>	101701	81641
Oil Age	mls	Client Info		<b>20000</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	>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>17</b>	38	17
Chromium	ppm	ASTM D5185m	>20	<b>0</b>	1	<1
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	3	<1
Titanium	ppm	ASTM D5185m		<b>23</b>	2	<1
Silver	ppm	ASTM D5185m	>3	<b>&lt;1</b>	<1	0
Aluminum	ppm	ASTM D5185m	>20	<b>2</b>	10	8
Lead	ppm	ASTM D5185m	>40	<b>0</b>	4	2
Copper	ppm	ASTM D5185m	>330	<b>26</b>	88	92
Tin	ppm	ASTM D5185m	>15	<b>1</b>	3	2
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	<1
Cadmium	ppm	ASTM D5185m		<b>0</b>	<1	0

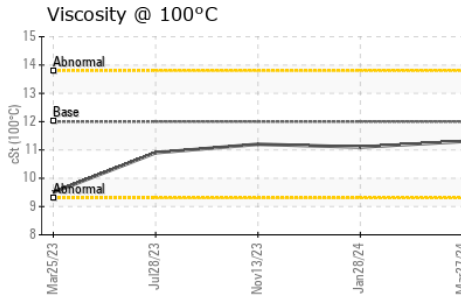
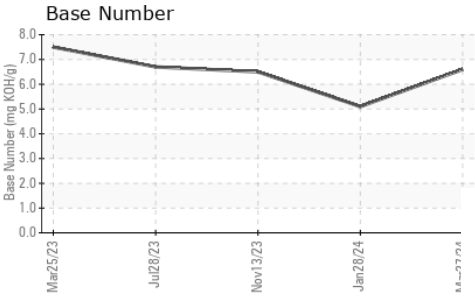
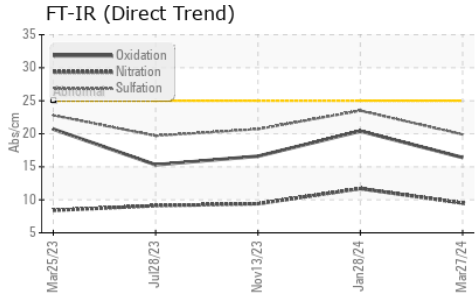
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	<b>16</b>	0	<1
Barium	ppm	ASTM D5185m	0	<b>0</b>	13	0
Molybdenum	ppm	ASTM D5185m	50	<b>45</b>	63	58
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	2	<1
Magnesium	ppm	ASTM D5185m	950	<b>781</b>	888	846
Calcium	ppm	ASTM D5185m	1050	<b>1226</b>	1086	1090
Phosphorus	ppm	ASTM D5185m	995	<b>940</b>	911	820
Zinc	ppm	ASTM D5185m	1180	<b>1138</b>	1162	1070
Sulfur	ppm	ASTM D5185m	2600	<b>3405</b>	2629	2422

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>5</b>	8	5
Sodium	ppm	ASTM D5185m		<b>1</b>	0	3
Potassium	ppm	ASTM D5185m	>20	<b>4</b>	28	22

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	<b>0.3</b>	0.6	0.4
Nitration	Abs/cm	*ASTM D7624	>20	<b>9.5</b>	11.7	9.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>19.9</b>	23.5	20.7

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>16.4</b>	20.4	16.6
Base Number (BN)	mg KOH/g	ASTM D2896		<b>6.6</b>	5.1	6.5

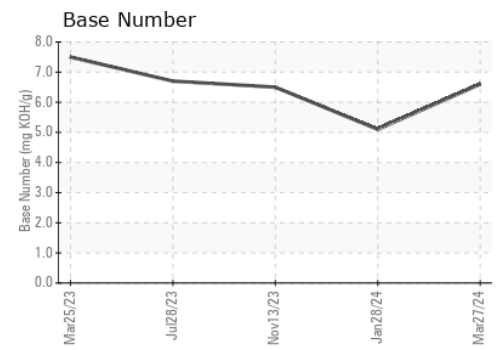
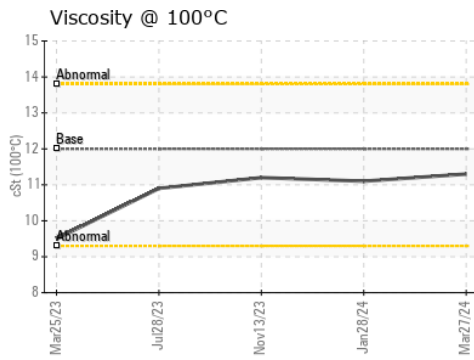
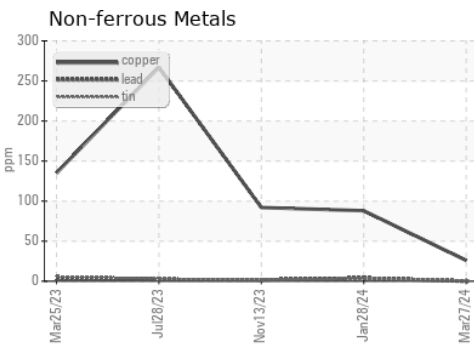
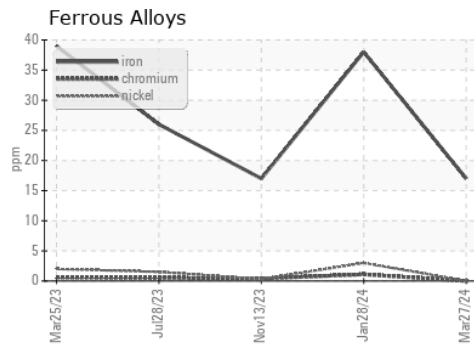
# OIL ANALYSIS REPORT



PARAMETER	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>	11.1	11.2

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0114779      **Received** : 10 Apr 2024  
**Lab Number** : **06143852**      **Tested** : 11 Apr 2024  
**Unique Number** : 10968660      **Diagnosed** : 11 Apr 2024 - Wes Davis  
**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)