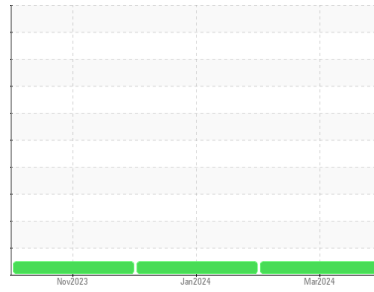


# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Machine Id  
**2227114**  
 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>PCA0114781</b>	PCA0114815	PCA0106359
Sample Date	Client Info			<b>30 Mar 2024</b>	29 Jan 2024	12 Nov 2023
Machine Age	mls	Client Info		<b>0</b>	610000	41690
Oil Age	mls	Client Info		<b>20000</b>	20000	41690
Oil Changed	Client Info			<b>Changed</b>	N/A	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>29</b>	20	22
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>4	<b>3</b>	5	3
Titanium	ppm	ASTM D5185m		<b>6</b>	4	<1
Silver	ppm	ASTM D5185m	>3	<b>&lt;1</b>	3	5
Aluminum	ppm	ASTM D5185m	>20	<b>11</b>	8	15
Lead	ppm	ASTM D5185m	>40	<b>0</b>	<1	4
Copper	ppm	ASTM D5185m	>330	<b>201</b>	438	585
Tin	ppm	ASTM D5185m	>15	<b>2</b>	2	1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	<1
Cadmium	ppm	ASTM D5185m		<b>0</b>	<1	0

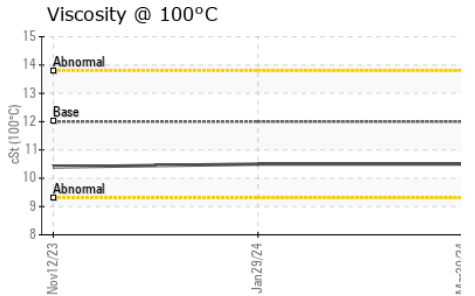
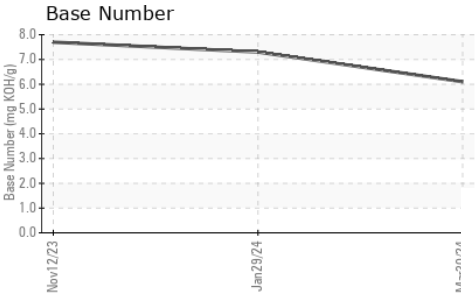
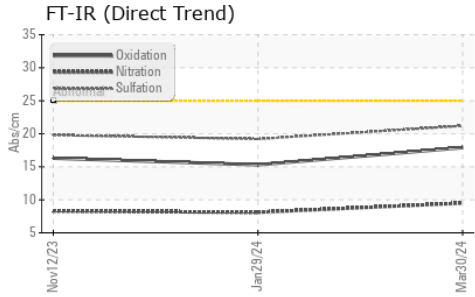
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	<b>5</b>	4	11
Barium	ppm	ASTM D5185m	0	<b>0</b>	13	0
Molybdenum	ppm	ASTM D5185m	50	<b>57</b>	60	64
Manganese	ppm	ASTM D5185m	0	<b>1</b>	1	1
Magnesium	ppm	ASTM D5185m	950	<b>910</b>	875	828
Calcium	ppm	ASTM D5185m	1050	<b>1217</b>	1121	1130
Phosphorus	ppm	ASTM D5185m	995	<b>939</b>	985	884
Zinc	ppm	ASTM D5185m	1180	<b>1202</b>	1151	1016
Sulfur	ppm	ASTM D5185m	2600	<b>2449</b>	3011	2323

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>8</b>	7	12
Sodium	ppm	ASTM D5185m		<b>2</b>	0	4
Potassium	ppm	ASTM D5185m	>20	<b>25</b>	22	39

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	<b>0.3</b>	0.2	0.2
Nitration	Abs/cm	*ASTM D7624	>20	<b>9.5</b>	8.1	8.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>21.2</b>	19.2	19.8

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>17.9</b>	15.3	16.3
Base Number (BN)	mg KOH/g	ASTM D2896		<b>6.1</b>	7.3	7.7

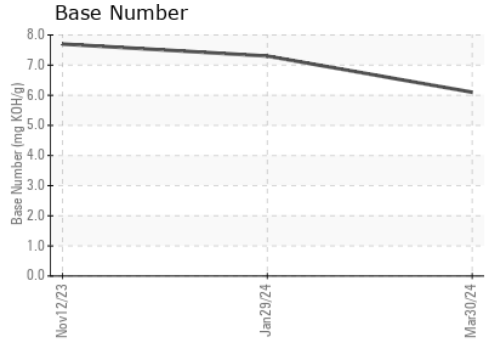
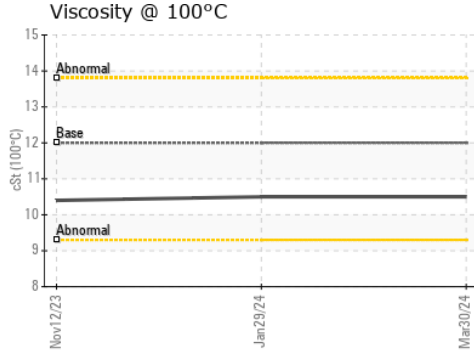
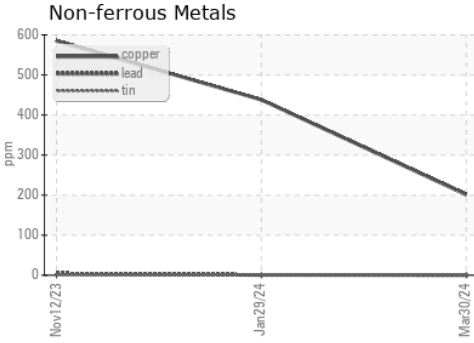
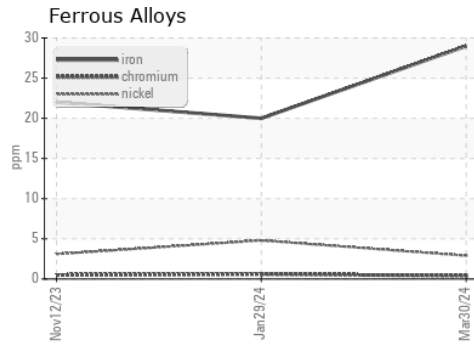
# OIL ANALYSIS REPORT



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	10.5	10.5

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0114781      **Received** : 10 Apr 2024  
**Lab Number** : **06143846**      **Tested** : 11 Apr 2024  
**Unique Number** : 10968654      **Diagnosed** : 11 Apr 2024 - Wes Davis  
**Test Package** : FLEET

**PERDUE FARMS - SALISBURY**  
 7036 ZION CHURCH ROAD  
 SALISBURY, MD  
 US 21802

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)

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 F: (410)341-2164