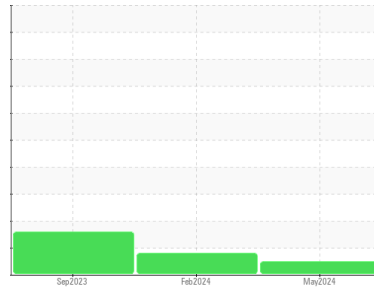


# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Machine Id  
**2227054**  
 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

Metal levels are typical for a new component breaking in.

### 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>PCA0124254</b>	PCA0118392	PCA0088741
Sample Date	Client Info		<b>11 May 2024</b>	08 Feb 2024	17 Sep 2023
Machine Age	mls	Client Info	<b>71000</b>	20000	20000
Oil Age	mls	Client Info	<b>20000</b>	20000	20000
Oil Changed	Client Info		<b>Not Changed</b>	Changed	Changed
Sample Status			<b>NORMAL</b>	ABNORMAL	ABNORMAL

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<b>&lt;1.0</b>	<1.0	0.2
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>28</b>	49	38
Chromium	ppm	ASTM D5185m >20	<b>&lt;1</b>	1	<1
Nickel	ppm	ASTM D5185m >4	<b>9</b>	▲ 22	1
Titanium	ppm	ASTM D5185m	<b>22</b>	<1	<1
Silver	ppm	ASTM D5185m >3	<b>2</b>	1	17
Aluminum	ppm	ASTM D5185m >20	<b>8</b>	17	37
Lead	ppm	ASTM D5185m >40	<b>&lt;1</b>	0	0
Copper	ppm	ASTM D5185m >330	<b>103</b>	101	33
Tin	ppm	ASTM D5185m >15	<b>2</b>	3	4
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 2	<b>12</b>	11	169
Barium	ppm	ASTM D5185m 0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m 50	<b>48</b>	68	115
Manganese	ppm	ASTM D5185m 0	<b>1</b>	2	4
Magnesium	ppm	ASTM D5185m 950	<b>847</b>	884	676
Calcium	ppm	ASTM D5185m 1050	<b>1307</b>	1179	1488
Phosphorus	ppm	ASTM D5185m 995	<b>939</b>	953	685
Zinc	ppm	ASTM D5185m 1180	<b>1233</b>	1182	839
Sulfur	ppm	ASTM D5185m 2600	<b>3092</b>	2397	2307

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>9</b>	15	▲ 56
Sodium	ppm	ASTM D5185m	<b>3</b>	4	5
Potassium	ppm	ASTM D5185m >20	<b>19</b>	48	107

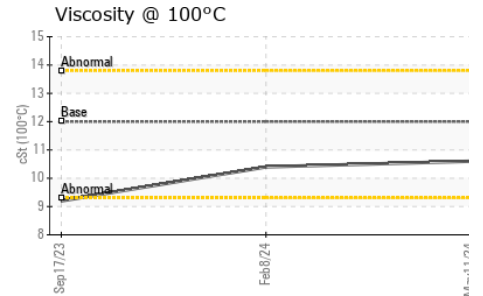
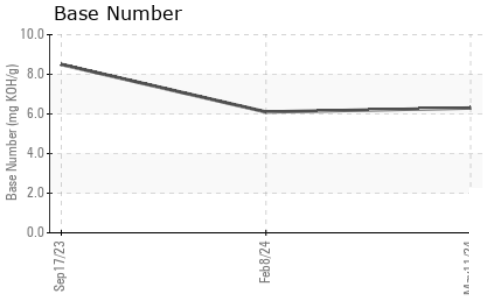
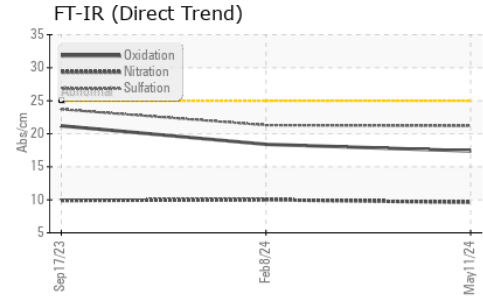
## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>0.3</b>	0.3	0.2
Nitration	Abs/cm	*ASTM D7624 >20	<b>9.6</b>	10.0	9.9
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>21.2</b>	21.3	23.7

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>17.4</b>	18.4	21.2
Base Number (BN)	mg KOH/g	ASTM D2896	<b>6.3</b>	6.1	8.5

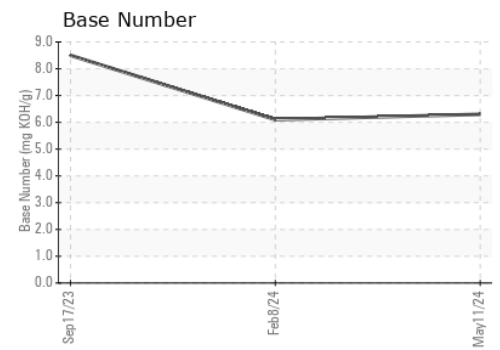
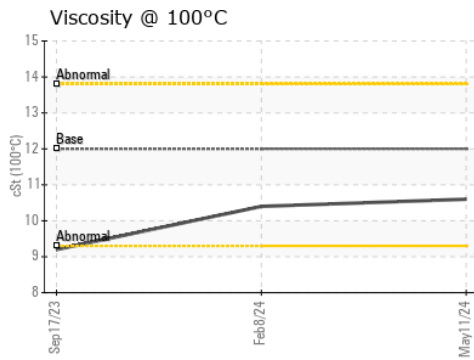
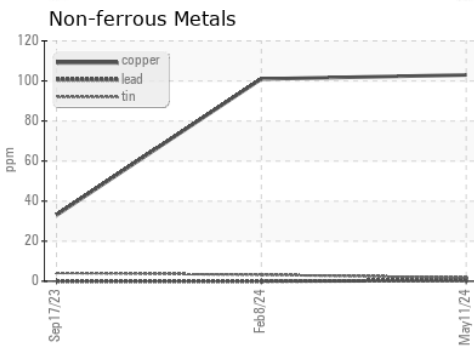
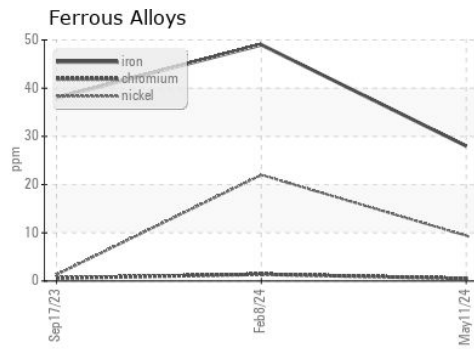
# OIL ANALYSIS REPORT



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	10.6	10.4

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0124254      **Received** : 23 May 2024  
**Lab Number** : 06188956      **Tested** : 24 May 2024  
**Unique Number** : 11045708      **Diagnosed** : 24 May 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)