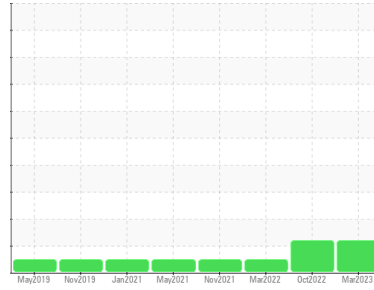


# PROBLEM SUMMARY

Sample Rating Trend



**DEGRADATION**



Machine Id  
**7880**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SHP 10W30 (--- QTS)**

## COMPONENT CONDITION SUMMARY

No relevant graphs to display

## RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

## PROBLEMATIC TEST RESULTS

Sample Status	ABNORMAL	ABNORMAL	NORMAL
Base Number (BN) mg KOH/g ASTM D2896	▲ 1.5	▲ 2.4	6

**Customer Id:** PERSALMD  
**Sample No.:** PCA0081609  
**Lab Number:** 05804975  
**Test Package:** FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data:  
 Doug Bogart +1 (800)237-1369 x4016  
[dougb@wearcheckusa.com](mailto:dougb@wearcheckusa.com)

To change component or sample information:  
 Customer Service +1 1-800-237-1369  
[customerservice@wearcheck.com](mailto:customerservice@wearcheck.com)

## RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Fluid	---	---	?	Oil and filter change at the time of sampling has been noted.
Change Filter	---	---	?	Oil and filter change at the time of sampling has been noted.

## HISTORICAL DIAGNOSIS

### 25 Oct 2022 Diag: Don Baldrige

#### DEGRADATION



The oil is near the end of its useful service life, recommend schedule an oil change. Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN level is low.

[view report](#)



### 16 Mar 2022 Diag: Don Baldrige

#### NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

[view report](#)



### 16 Nov 2021 Diag: Wes Davis

#### NORMAL



Resample at the next service interval to monitor. Please specify the component make and model with your next sample. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

[view report](#)

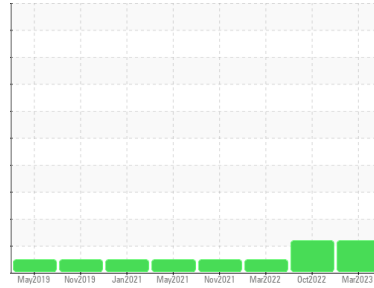


# OIL ANALYSIS REPORT

Sample Rating Trend

**DEGRADATION**

Machine Id  
**7880**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SHP 10W30 (--- QTS)**



## DIAGNOSIS

### ▲ Recommendation

Oil and filter change at the time of sampling has been noted. 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 level is low.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>PCA0081609</b>	PCA0076894	PCA0067319
Sample Date	Client Info			<b>16 Mar 2023</b>	25 Oct 2022	16 Mar 2022
Machine Age	mls	Client Info		<b>12000</b>	15000	20000
Oil Age	mls	Client Info		<b>12000</b>	15000	20000
Oil Changed	Client Info			<b>Changed</b>	Not Changd	Not Changd
Sample Status				<b>ABNORMAL</b>	ABNORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method	>5		<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>141</b>	73	21
Chromium	ppm	ASTM D5185m	>20	<b>3</b>	2	<1
Nickel	ppm	ASTM D5185m	>4	<b>1</b>	1	0
Titanium	ppm	ASTM D5185m		<b>15</b>	18	20
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>4</b>	3	2
Lead	ppm	ASTM D5185m	>40	<b>2</b>	2	1
Copper	ppm	ASTM D5185m	>330	<b>3</b>	2	1
Tin	ppm	ASTM D5185m	>15	<b>1</b>	<1	<1
Antimony	ppm	ASTM D5185m		<b>---</b>	---	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	0

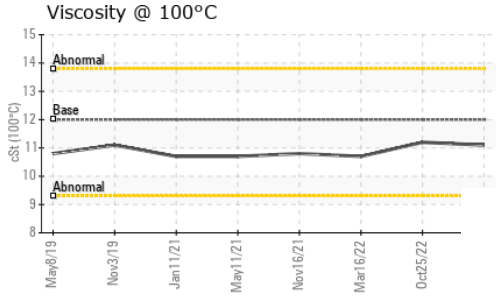
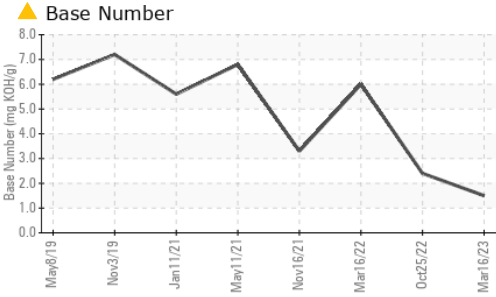
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	<b>3</b>	5	10
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	50	<b>43</b>	41	44
Manganese	ppm	ASTM D5185m	0	<b>2</b>	<1	<1
Magnesium	ppm	ASTM D5185m	950	<b>714</b>	708	757
Calcium	ppm	ASTM D5185m	1050	<b>1111</b>	1129	1225
Phosphorus	ppm	ASTM D5185m	995	<b>840</b>	846	995
Zinc	ppm	ASTM D5185m	1180	<b>1105</b>	1103	1194
Sulfur	ppm	ASTM D5185m	2600	<b>2215</b>	2541	2613

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>10</b>	7	5
Sodium	ppm	ASTM D5185m		<b>33</b>	25	8
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	0	2

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	<b>1.1</b>	1	0.4
Nitration	Abs/cm	*ASTM D7624	>20	<b>20.8</b>	18.8	10.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>33.2</b>	32.6	23.6

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>42.5</b>	36.4	20.8
Base Number (BN)	mg KOH/g	ASTM D2896		<b>▲ 1.5</b>	▲ 2.4	6

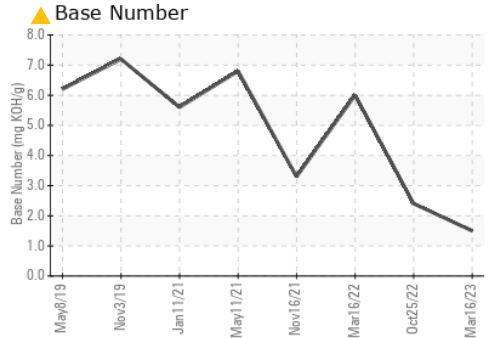
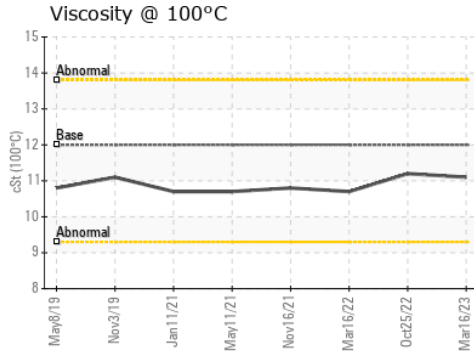
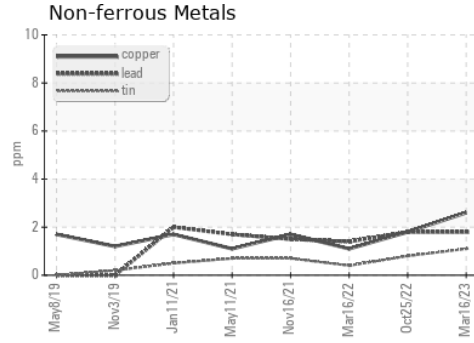
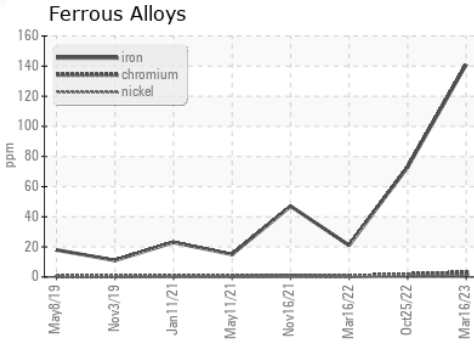
# OIL ANALYSIS REPORT



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	11.1	11.2

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0081609 **Received** : 29 Mar 2023  
**Lab Number** : 05804975 **Diagnosed** : 07 Apr 2023  
**Unique Number** : 10402504 **Diagnostician** : Doug Bogart  
**Test Package** : FLEET

**PERDUE FARMS - SALISBURY**  
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 US 21802  
 Contact: RICHARD O'NEAL  
 richard.oneal@perdue.com  
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 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)