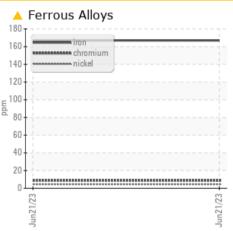


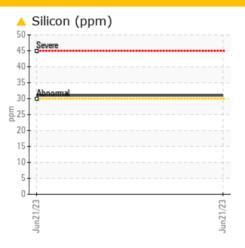
#### Area TALLASSEE Machine Id 426044-365107

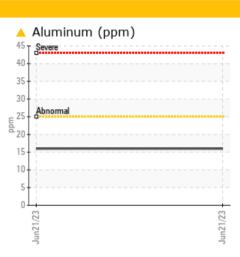
Component Diesel Engine

## PETRO CANADA DURON SHP 15W40 (--- LTR)

## COMPONENT CONDITION SUMMARY







## RECOMMENDATION

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. We recommend an early resample to monitor this condition.

# PROBLEMATIC TEST RESULTS Sample Status ABNORMAL -- -- Iron ppm ASTM D5185m >110 ▲ 167 -- -- Chromium ppm ASTM D5185m >4 ♀ •= •=

11011	ppiii	//OTIM DOTOOIII	2110	_ 107	
Chromium	ppm	ASTM D5185m	>4	<u> </u>	 
Aluminum	ppm	ASTM D5185m	>25	<b>1</b> 6	 
Silicon	ppm	ASTM D5185m	>30	<b>A</b> 31	 

Customer Id: GFL172 Sample No.: GFL0045428 Lab Number: 05885384 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data: Don Baldridge +1 don.b505@comcast.net

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

RECOMMENDE	D ACTIONS			
Action	Status	Date	Done By	Description
Resample			?	We recommend an early resample to monitor this condition.
Check Dirt Access			?	We advise that you check the air filter, air induction system, and any areas where dirt may enter the component.

## HISTORICAL DIAGNOSIS



## **OIL ANALYSIS REPORT**

## Area TALLASSEE 426044-365107

Component Diesel Engine Fluid

PETRO CANADA DURON SHP 15W40 (--- LTR)

## DIAGNOSIS

### Recommendation

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. We recommend an early resample to monitor this condition.

## 📥 Wear

Cylinder, crank, or cam shaft wear is indicated.

#### Contamination

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

#### Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

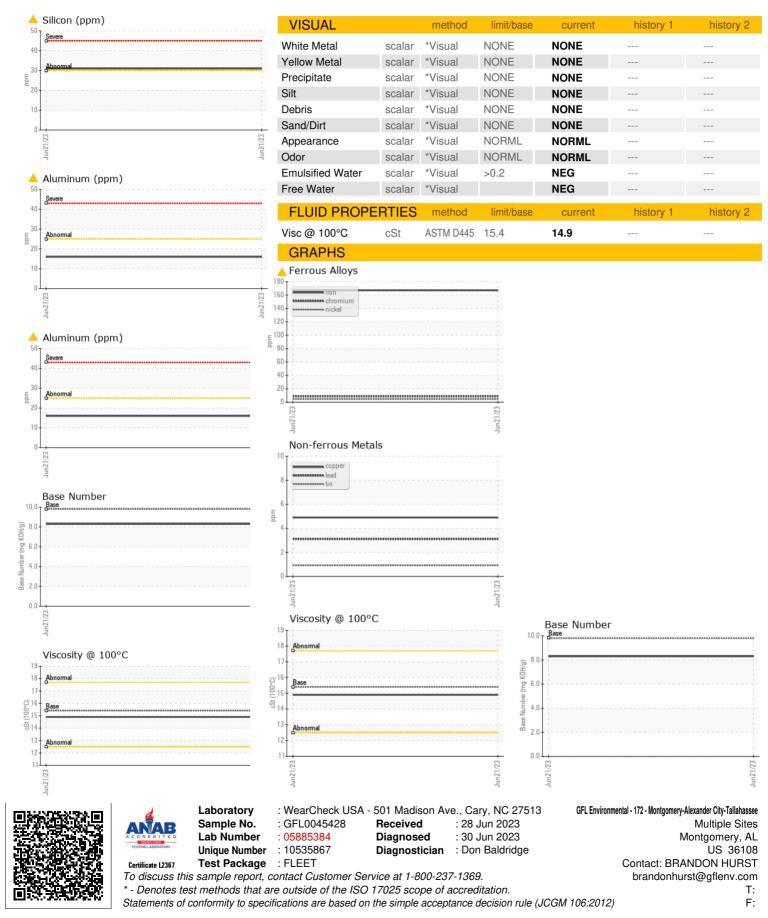
R)				Jun <sup>2</sup> 023		
SAMPLE INFOR		method	limit/base	current	history 1	history 2
Sample Number		Client Info		GFL0045428		
Sample Date		Client Info		21 Jun 2023		
Machine Age	hrs	Client Info		7996		
Dil Age	hrs	Client Info		7996		
Dil Changed	1113	Client Info		N/A		
Sample Status				ABNORMAL		
	ION	method	limit/base	current	history 1	history 2
Fuel		WC Method	>5	<1.0		
		WC Method	>0	<1.0 NEG		
Glycol		WC WELHOU		NEG		
WEAR METAL	.S	method	limit/base	current	history 1	history 2
ron	ppm	ASTM D5185m	>110	🔺 167		
Chromium	ppm	ASTM D5185m	>4	<mark>/</mark> 9		
Nickel	ppm	ASTM D5185m	>2	5		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm	ASTM D5185m	>25	<u> </u>		
Lead	ppm	ASTM D5185m	>45	3		
Copper	ppm	ASTM D5185m	>85	5		
Tin	ppm	ASTM D5185m	>4	<1		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		<1		
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m	0	33		
Barium	ppm	ASTM D5185m	0	<1		
Molybdenum	ppm	ASTM D5185m	60	75		
Vanganese	ppm	ASTM D5185m	0	2		
Magnesium	ppm	ASTM D5185m	1010	938		
Calcium	ppm	ASTM D5185m	1070	1447		
Phosphorus	ppm	ASTM D5185m	1150	1026		
Zinc	ppm	ASTM D5185m	1270	1294		
Sulfur	ppm	ASTM D5185m	2060	3633		
CONTAMINAN	ITS	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>30	<b>A</b> 31		
Sodium	ppm	ASTM D5185m		9		
Potassium	ppm	ASTM D5185m	>20	5		
INFRA-RED		method	limit/base	current	history 1	history 2
Soot %	%	*ASTM D7844	>3	1.6		
Nitration	Abs/cm	*ASTM D7624		13.2		
Sulfation	Abs/.1mm	*ASTM D7415		26.8		
			11 11 11			history 2
FLUID DEGRA	DATION	method	limit/base	current	history 1	TIISTOLA Z
FLUID DEGRA	DATION Abs/.1mm	*ASTM D7414	>25	22.2	history 1	

Sample Rating Trend

DIRT



# **OIL ANALYSIS REPORT**



Submitted By: see also GFL868 - Chelsea Bryan