

# **PROBLEM SUMMARY**

Sample Rating Trend

WEAR

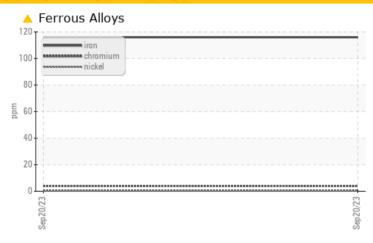


Machine Id **428116** 

Component **Diesel Engine** 

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

#### **COMPONENT CONDITION SUMMARY**



#### RECOMMENDATION

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

# PROBLEMATIC TEST RESULTS Sample Status ABNORMAL -- -- Iron ppm ASTM D5185m >100 ▲ 116 -- --

Customer Id: GFL413
Sample No.: GFL0093006
Lab Number: 05968733
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

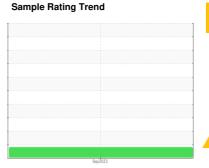
To change component or sample information:
Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

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



# **OIL ANALYSIS REPORT**







Machine Id 428116 Component

**Diesel Engine** 

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

#### **DIAGNOSIS**

#### Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

#### Wear

Cylinder, crank, or cam shaft wear is indicated. All other component wear rates are normal.

#### Contamination

There is no indication of any contamination in the

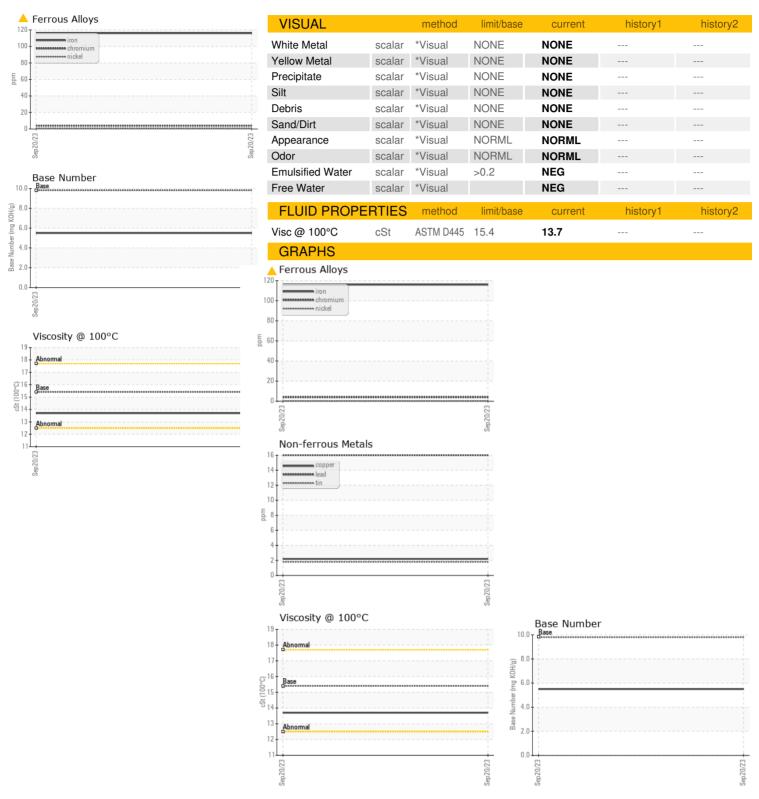
#### **Fluid Condition**

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

AL)				Sep 2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0093006		
Sample Date		Client Info		20 Sep 2023		
Machine Age	hrs	Client Info		10838		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
Glycol		WC Method		NEG		
WEAR METAL	S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>100	<b>116</b>		
Chromium	ppm	ASTM D5185m	>20	4		
Nickel	ppm	ASTM D5185m	>4	<1		
Гitanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>20	12		
_ead	ppm	ASTM D5185m	>40	16		
Copper	ppm	ASTM D5185m	>330	2		
rin .	ppm	ASTM D5185m	>15	2		
/anadium	ppm	ASTM D5185m	7.0	- <1		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	19		
Barium	ppm	ASTM D5185m	0	0		
Molybdenum	ppm	ASTM D5185m	60	73		
Manganese	ppm	ASTM D5185m	0	1		
Magnesium	ppm	ASTM D5185m	1010	1103		
Calcium	ppm	ASTM D5185m	1070	1397		
Phosphorus	ppm	ASTM D5185m	1150	1167		
Zinc	ppm	ASTM D5185m	1270	1464		
Sulfur	ppm	ASTM D5185m	2060	2950		
CONTAMINAN						
	TS	method	limit/base	current	history1	history2
Silicon	TS ppm	method ASTM D5185m	limit/base >25	current 7	history1	history2
					,	,
Silicon Sodium	ppm	ASTM D5185m		7		
Silicon Sodium	ppm ppm	ASTM D5185m ASTM D5185m	>25	7 4		
Silicon Sodium Potassium INFRA-RED	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	>25 >20	7 4 22		 
Silicon Sodium Potassium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method	>25 >20 limit/base	7 4 22 current	  history1	  history2
Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844	>25 >20 limit/base >3	7 4 22 current 1.6	history1	history2
Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624 *ASTM D7415	>25 >20 limit/base >3 >20	7 4 22 current 1.6 16.4	history1	history2
Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624 *ASTM D7415	>25 >20 limit/base >3 >20 >30	7 4 22 current 1.6 16.4 32.0	 history1	 history2



### **OIL ANALYSIS REPORT**







Laboratory Sample No. Lab Number Unique Number

: GFL0093006 : 05968733 : 10675284 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 04 Oct 2023 Diagnosed : 06 Oct 2023 : Don Baldridge Diagnostician

GFL Environmental - 413 - Whiteland Hauling 2959 S EMERSON AVE

WHITELAND, IN US 46184

Contact: Christyan Trent-Proctor ctrentproctor@gflenv.com T:

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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