

# **PROBLEM SUMMARY**

Sample Rating Trend

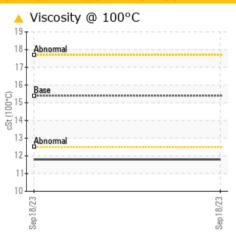


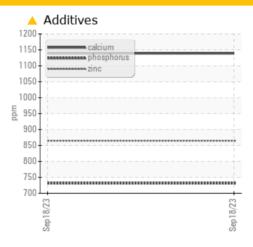
713025 Component

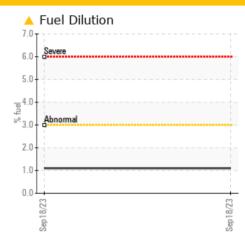
**Diesel Engine** 

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

### **COMPONENT CONDITION SUMMARY**







#### RECOMMENDATION

Resample at the next service interval to monitor.

#### PROBLEMATIC TEST RESULTS Sample Status **ABNORMAL** Boron ASTM D5185m O 40 ppm Phosphorus ppm ASTM D5185m 1150 731 865 Zinc ppm ASTM D5185m 1270 Fuel % ASTM D3524 >3.0 **1.1** Visc @ 100°C cSt ASTM D445 15.4 **11.8**

Customer Id: GFL820 Sample No.: GFL0088195 Lab Number: 05975381 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data: Wes Davis +1 905-569-8600 x223 wesd@wearcheck.ca

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

## RECOMMENDED ACTIONS

There are no recommended actions for this sample.

## HISTORICAL DIAGNOSIS



# **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id 713025 Component

**Diesel Engine** 

PETRO CANADA DURON SHP 15W40 (--- G

#### **DIAGNOSIS**

#### Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

#### Contamination

Light fuel dilution occurring.

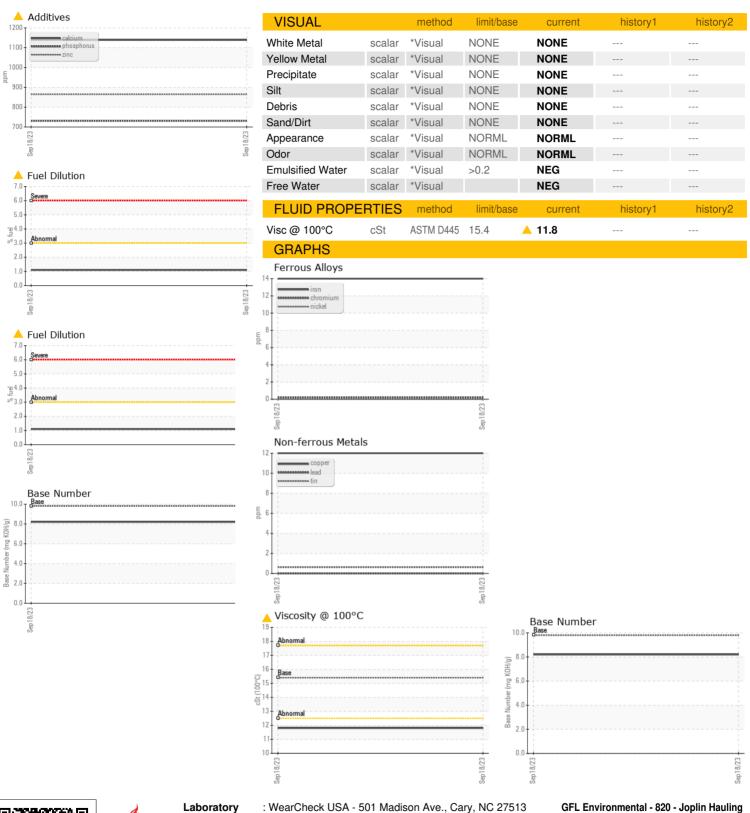
#### Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The condition of the oil is suitable for further service.

iAL)				Sep2023		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number	1017 (11101)	Client Info		GFL0088195		
Sample Date		Client Info		18 Sep 2023		
Machine Age	bro	Client Info		2385		
Oil Age	hrs	Client Info		0		
•	1115	Client Info		Not Changd		
Oil Changed Sample Status		Client into		ABNORMAL		
CONTAMINAT	ION	method	limit/base	current	history1	history2
Glycol	1011	WC Method	iiiiii bacco	NEG		
WEAR METAL	S	method	limit/base	current	history1	history2
					Thotory I	motory
ron	ppm	ASTM D5185m	>90	14		
Chromium	ppm	ASTM D5185m		<1		
Nickel	ppm	ASTM D5185m	>2	0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m	>2	<1		
Aluminum	ppm	ASTM D5185m	>20	3		
_ead	ppm	ASTM D5185m	>40	0		
Copper	ppm	ASTM D5185m	>330	12		
Γin	ppm	ASTM D5185m	>15	<1		
/anadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<b>40</b>		
Barium	ppm	ASTM D5185m	0	4		
Molybdenum	ppm	ASTM D5185m	60	46		
Manganese	ppm	ASTM D5185m	0	5		
Magnesium	ppm	ASTM D5185m	1010	808		
Calcium	ppm	ASTM D5185m	1070	1139		
Phosphorus	ppm	ASTM D5185m	1150	<u>▲</u> 731		
Zinc	ppm	ASTM D5185m	1270	<u> </u>		
Sulfur	ppm	ASTM D5185m	2060	2256		
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	13		
Sodium	ppm	ASTM D5185m		6		
Potassium	ppm	ASTM D5185m	>20	8		
-uel	%	ASTM D3524	>3.0	<u> </u>		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.2		
Nitration	Abs/cm	*ASTM D7624		9.1		
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.0		
FLUID DEGRAI	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.0		
Base Number (BN)	mg KOH/g	ASTM D2896		8.2		



## **OIL ANALYSIS REPORT**





Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** 

: 05975381

: 10687331

Received : 11 Oct 2023 : GFL0088195 Diagnosed : 13 Oct 2023 Diagnostician : Wes Davis

Test Package : FLEET ( Additional Tests: FuelDilution, PercentFuel ) 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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