

PROBLEM SUMMARY

Sample Rating Trend



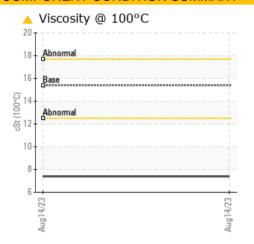
Machine Id **226023**

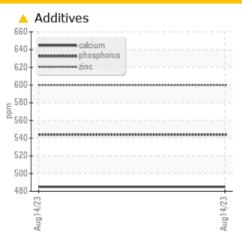
Component **Diesel Engine**

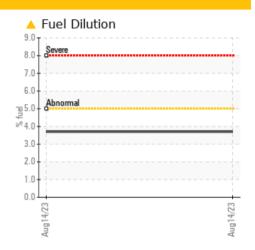
PETRO CANADA DURON SHP 15W40 (--- GAL)



COMPONENT CONDITION SUMMARY







RECOMMENDATION

No corrective action is recommended at this time. We recommend an early resample to monitor this condition.

PROBLEMATI	C TES	T RESULT	S		
Sample Status				ATTENTION	
Magnesium	ppm	ASTM D5185m	1010	<u>▲</u> 341	
Calcium	ppm	ASTM D5185m	1070	485	
Phosphorus	ppm	ASTM D5185m	1150	<u></u> △ 544	
Zinc	ppm	ASTM D5185m	1270	600	
Fuel	%	ASTM D3524	>5	△ 3.7	
Visc @ 100°C	cSt	ASTM D445	15.4	7.4	

Customer Id: GFL924 Sample No.: GFL0059621 Lab Number: 05924751 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 ihester@wearcheckusa.com

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

RECOMMENDED	ACTIONS			
Action	Status	Date	Done By	Description
Resample			?	We recommend an early resample to monitor this condition.

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT





226023 Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- G

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

Light fuel dilution occurring.

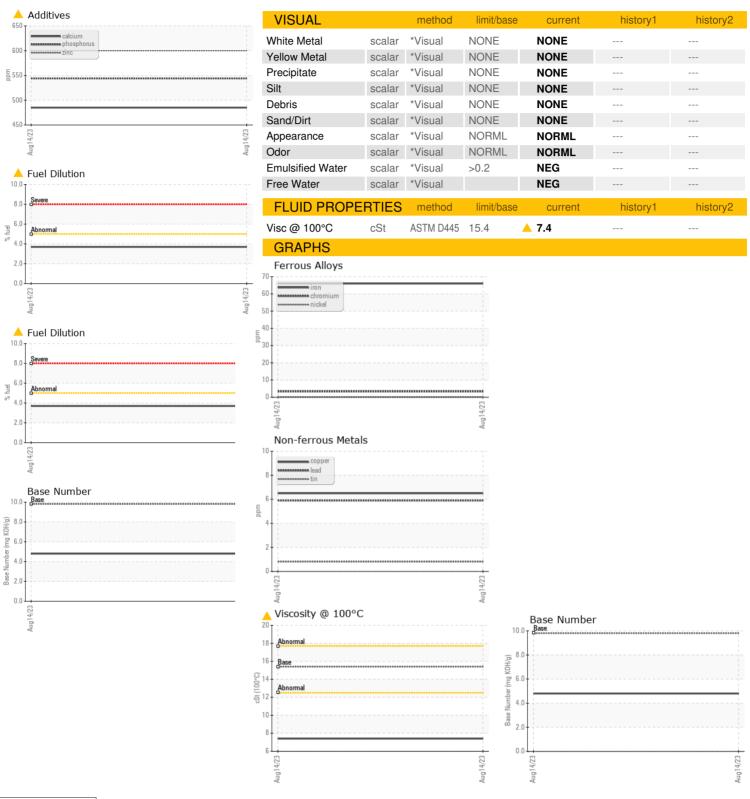
▲ Fluid Condition

The oil viscosity is lower than normal. Additive levels indicate the addition of a different brand, or type of oil. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

GAL)				Aug2023		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
	WII CITO		mine bacc			
Sample Number		Client Info		GFL0059621		
Sample Date	la			14 Aug 2023		
Machine Age	mls	Client Info		0		
Oil Changed	mls	Client Info		N/A		
Oil Changed Sample Status		Ciletit IIIIO		ATTENTION		
·				ATTENTION		
CONTAMINAT	ION	method	limit/base	current	history1	history2
Glycol		WC Method		NEG		
WEAR METAL	.S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	66		
Chromium	ppm	ASTM D5185m	>20	3		
Nickel	ppm	ASTM D5185m	>4	0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>20	13		
Lead	ppm	ASTM D5185m	>40	6		
Copper	ppm	ASTM D5185m	>330	6		
Tin	ppm	ASTM D5185m	>15	<1		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	26		
Barium	ppm	ASTM D5185m	0	0		
Molybdenum	ppm	ASTM D5185m	60	24		
Manganese	ppm	ASTM D5185m	0	1		
Magnesium	ppm	ASTM D5185m	1010	4 341		
Calcium	ppm	ASTM D5185m	1070	485		
Phosphorus	ppm	ASTM D5185m	1150	544		
Zinc	ppm	ASTM D5185m	1270	△ 600		
Sulfur	ppm	ASTM D5185m	2060	2005		
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	11		
Sodium						
	ppm	ASTM D5185m		27		
Potassium	ppm ppm	ASTM D5185m ASTM D5185m	>20	27 6		
Potassium Fuel			>20 >5			
	ppm	ASTM D5185m		6		
Fuel	ppm	ASTM D5185m ASTM D3524	>5	6 ▲ 3.7		
Fuel INFRA-RED Soot %	ppm %	ASTM D5185m ASTM D3524 method *ASTM D7844	>5 limit/base >3	6 3.7 current	 history1	 history2
Fuel INFRA-RED	ppm %	ASTM D5185m ASTM D3524 method *ASTM D7844 *ASTM D7624	>5 limit/base >3	6 3.7 current	 history1 	history2
Fuel INFRA-RED Soot % Nitration Sulfation	ppm % % Abs/cm Abs/.1mm	ASTM D5185m ASTM D3524 method *ASTM D7844 *ASTM D7624 *ASTM D7415	>5 limit/base >3 >20	6 ▲ 3.7 current 1.3 9.7	 history1 	 history2
Fuel INFRA-RED Soot % Nitration Sulfation FLUID DEGRA	ppm % % Abs/cm Abs/.1mm	ASTM D5185m ASTM D3524 method *ASTM D7844 *ASTM D7624 *ASTM D7415 method	>5 limit/base >3 >20 >30 limit/base	6 3.7 current 1.3 9.7 29.1 current	history1	history2 history2
Fuel INFRA-RED Soot % Nitration Sulfation	ppm % % Abs/cm Abs/.1mm	ASTM D5185m ASTM D3524 method *ASTM D7844 *ASTM D7624 *ASTM D7415	>5	6 3.7 current 1.3 9.7 29.1	 history1 	 history2



OIL ANALYSIS REPORT





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

: GFL0059621 : 05924751 : 10604698

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 15 Aug 2023 Diagnosed : 16 Aug 2023 Diagnostician : Jonathan Hester

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)

GFL Environmental - 924 - Madison HC

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