

PROBLEM SUMMARY

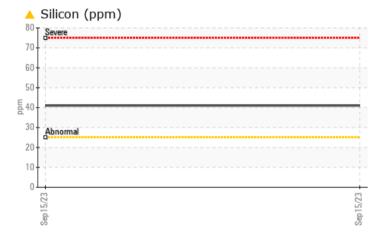
Sample Rating Trend
DIRT

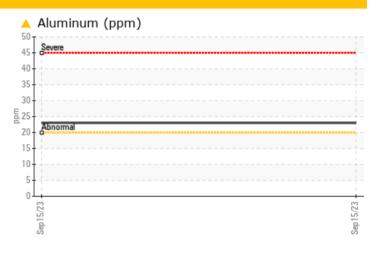
934047 Component Diesel Engine

Machine Id

PETRO CANADA DURON SHP 15W40 (42 QTS)

COMPONENT CONDITION SUMMARY





RECOMMENDATION

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. 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				
Aluminum	ppm	ASTM D5185m	>20	<u> </u>				
Silicon	ppm	ASTM D5185m	>25	4 1				
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	A 3.4				

Customer Id: GFL035 Sample No.: GFL0071621 Lab Number: 05956294 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 jhester@wearcheckusa.com

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
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.
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

Sample Rating Trend



Machine Id 934047 Component

Diesel Engine Fluid

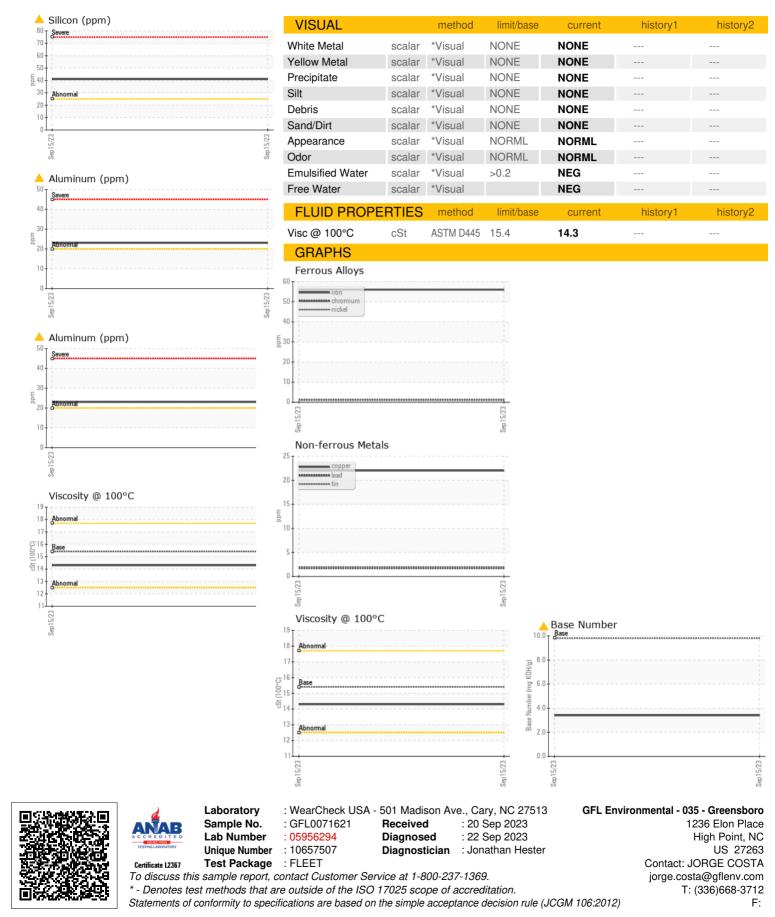
PETRO CANADA DURON SHP 15W40 (42 QTS)

					Sep2023		
DIAGNOSIS	SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		GFL0071621		
Ne advise that you check the air filter, air induction	Sample Date		Client Info		15 Sep 2023		
ystem, and any areas where dirt may enter the	Machine Age	hrs	Client Info		0		
omponent. Oil and filter change at the time of ampling has been noted. Resample at the next	Oil Age	hrs	Client Info		600		
ervice interval to monitor.	Oil Changed		Client Info		Changed		
Wear	Sample Status				ABNORMAL		
ll component wear rates are normal.	CONTAMINA	ΓΙΟΝ	method	limit/base	current	history1	history2
Contamination	Fuel		WC Method	>3.0	<1.0		
emental levels of silicon (Si) and aluminum (Al) dicate alumina-silicate (coarse dirt) ingress.	Glycol		WC Method		NEG		
Fluid Condition	WEAR METAI	S	method	limit/base	current	history1	history2
e BN level is low. The condition of the oil is	Iron	ppm	ASTM D5185m	>120	56		
ceptable for the time in service.	Chromium	ppm	ASTM D5185m	>20	1		
	Nickel	ppm	ASTM D5185m	>5	1		
	Titanium	ppm	ASTM D5185m	>2	0		
	Silver	ppm	ASTM D5185m	>2	0		
	Aluminum	ppm	ASTM D5185m	>20	<u> </u>		
	Lead	ppm	ASTM D5185m	>40	2		
	Copper	ppm	ASTM D5185m	>330	22		
	Tin	ppm	ASTM D5185m		2		
	Vanadium	ppm	ASTM D5185m		0		
	Cadmium	ppm	ASTM D5185m		0		
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m	0	4		
	Barium	ppm	ASTM D5185m	0	<1		
	Molybdenum	ppm	ASTM D5185m	60	57		
	Manganese	ppm	ASTM D5185m	0	15		
	Magnesium	ppm	ASTM D5185m	1010	763		
	Calcium	ppm	ASTM D5185m	1070	1154		
	Phosphorus	ppm	ASTM D5185m	1150	721		
	Zinc	ppm	ASTM D5185m		951		
	Sulfur	ppm	ASTM D5185m	2060	2520		
	CONTAMINA	NTS	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>25	4 1		
	Codium	ppm	ASTM D5185m		5		
	Sodium	10 Io					
	Potassium	ppm	ASTM D5185m	>20	57		
			ASTM D5185m method	>20 limit/base		 history1	
	Potassium			limit/base			
	Potassium INFRA-RED	ppm	method	limit/base	current	history1	history2
	Potassium INFRA-RED Soot %	ppm %	method *ASTM D7844	limit/base >4 >20	current 0.1	history1	history2
	Potassium INFRA-RED Soot % Nitration	ppm % Abs/cm Abs/.1mm	method *ASTM D7844 *ASTM D7624 *ASTM D7415	limit/base >4 >20	current 0.1 11.9 23.4	history1 	history2
	Potassium INFRA-RED Soot % Nitration Sulfation	ppm % Abs/cm Abs/.1mm	method *ASTM D7844 *ASTM D7624 *ASTM D7415	limit/base >4 >20 >30 limit/base	current 0.1 11.9 23.4	history1 	history2





OIL ANALYSIS REPORT



Submitted By: JORGE COSTA

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