

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

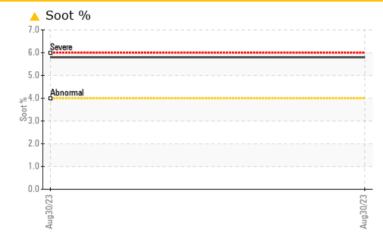


### COMPONENT CONDITION SUMMARY

-0

Machine Id 720039 Component Diesel Engine

Fluid



#### RECOMMENDATION

We advise that you check for faulty combustion, plugged air filters, or aftercoolers. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. NOTE: High solids (carbon/soot) in the sample have limited the accuracy of Infra-Red data including Total Base Number (TBN) value.

PROBLEMATIC TEST RESULTS								
Sample Status				ABNORMAL				
Soot %	%	*ASTM D7844	>4	<b>5.8</b>				
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>0.0</b>				

Customer Id: GFL963 Sample No.: GFL0090359 Lab Number: 05944421 Test Package: FLEET



To manage this report scan the QR code

*To discuss the diagnosis or test data:* Don Baldridge +1 <u>don.b505@comcast.net</u>

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

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.		
Alert			?	NOTE: High solids (carbon/soot) in the sample have limited the accuracy of Infra-Red data including Total Base Number (TBN) value.		
Check Combustion			?	We advise that you check for faulty combustion, plugged air filters, or aftercoolers.		

HISTORICAL DIAGNOSIS



## **OIL ANALYSIS REPORT**

Sample Rating Trend

DEGRADATION



**Diesel Engine** PETRO CANADA DURON SHP 15W40 (--- GAL)

ON SHP 15W40 (-	GAL)			Aug2023		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0090359		
Sample Date		Client Info		30 Aug 2023		
Machine Age	hrs	Client Info		7354		
Oil Age	hrs	Client Info		7354		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0		
Glycol		WC Method		NEG		
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	70		
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	6		
Lead	ppm	ASTM D5185m	>40	0		
Copper	ppm	ASTM D5185m	>330	2		
Tin	ppm	ASTM D5185m	>15	<1		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history
Boron	ppm	ASTM D5185m	0	14		
Barium	ppm	ASTM D5185m	0	0		
Molybdenum	ppm	ASTM D5185m	60	45		
Manganese	ppm	ASTM D5185m		1		
Magnesium	ppm	ASTM D5185m	1010	853		
Calcium	ppm	ASTM D5185m	1070	1134		
Phosphorus	ppm	ASTM D5185m	1150	904		
Zinc	ppm	ASTM D5185m	1270	1110		
Sulfur	ppm	ASTM D5185m	2060	3329		
CONTAMINAN	ITS	method	limit/base	current	history1	history
Silicon	ppm	ASTM D5185m	>25	7		
Sodium	ppm	ASTM D5185m		6		
Potassium	ppm	ASTM D5185m	>20	1		
INFRA-RED		method	limit/base	current	history1	history
Soot %	%	*ASTM D7844	>4	<b>5.8</b>		

Soot %	%	*ASTM D7844	>4	<b>5.8</b>		
Nitration	Abs/cm	*ASTM D7624	>20	15.3		
Sulfation	Abs/.1mm	*ASTM D7415	>30	30.9		
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
FLUID DEGRAD		method *ASTM D7414		current 18.0	history1	history2

# DIAGNOSIS

A Recommendation We advise that you check for faulty combustion plugged air filters, or aftercoolers. Oil and filter change at the time of sampling has been noted Resample at the next service interval to monitor

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#### Wear

All component wear rates are normal.

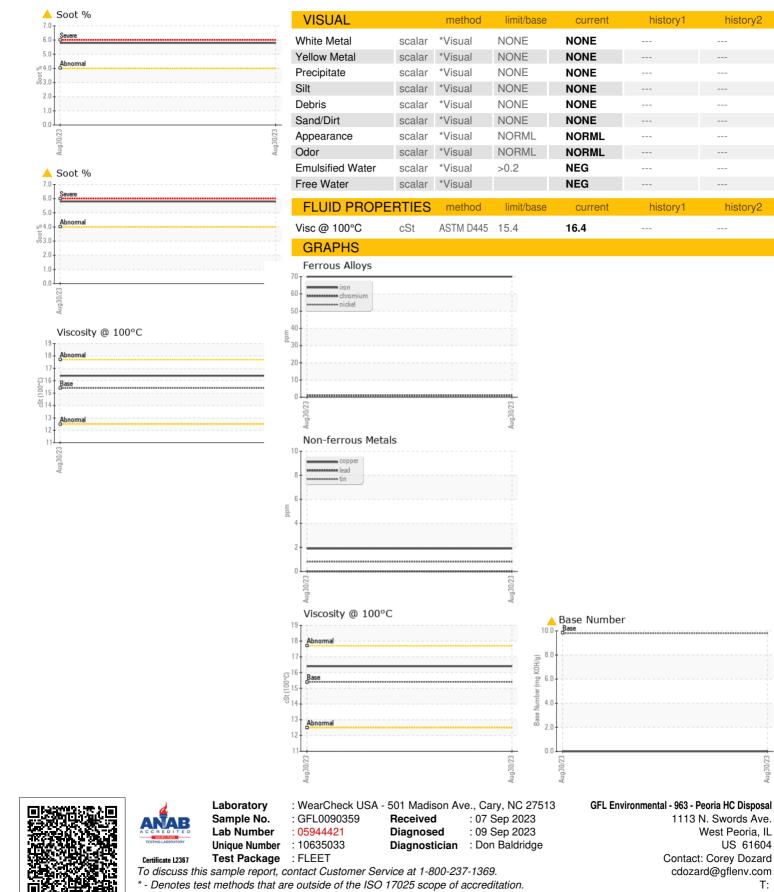
### Contamination

There is an abnormal amount of solids and can present in the oil.

Fluid Condition The BN level is low.



# **OIL ANALYSIS REPORT**



West Peoria, IL

US 61604

T:

F:

history2

history2