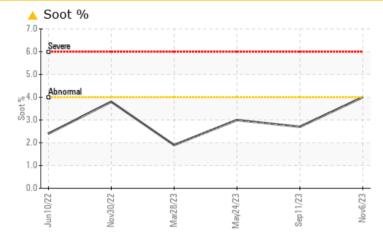


#### COMPONENT CONDITION SUMMARY



#### RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor. ( Customer Sample Comment: Sample only )

PROBLEMATIC TEST RESULTS								
Sample Status				ABNORMAL	NORMAL	NORMAL		
Soot %	%	*ASTM D7844	>4	<u> </u>	2.7	3		

Customer Id: GFL625 Sample No.: GFL0094851 Lab Number: 06002065 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 <u>jhester@wearcheckusa.com</u>

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

RECOMMENDED	ACTIONS			
Action	Status	Date	Done By	Description
Change Filter			?	We recommend you service the filters on this component.

#### HISTORICAL DIAGNOSIS

### 11 Sep 2023 Diag: Jonathan Hester



Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



view report

#### 24 May 2023 Diag: Wes Davis



Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

NORMAL



#### 28 Mar 2023 Diag: Wes Davis

Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.







## **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id 427148 Component Fluid

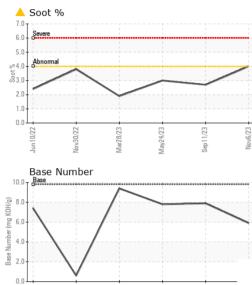
**Diesel Engine** 

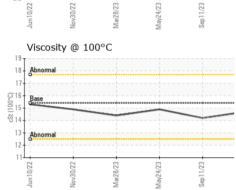
## PETRO CANADA DURON SHP 15W40 (--- GAL)

DIAGNOSIS	SAMPLE INFOR		method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		GFL0094851	GFL0088279	GFL0077530
Ne recommend you service the filters on this	Sample Date		Client Info		06 Nov 2023	11 Sep 2023	24 May 2023
component. Resample at the next service interval to	Machine Age	hrs	Client Info		17412	17328	17125
nonitor. ( Customer Sample Comment: Sample	Oil Age	hrs	Client Info		288	204	177
nly)	Oil Changed		Client Info		Not Changd	Not Changd	Changed
<b>Vear</b> Il component wear rates are normal.	Sample Status				ABNORMAL	U	NORMAL
Contamination	CONTAMINAT	ION	method	limit/base	current	history1	history2
here is an abnormal amount of solids and carbon resent in the oil.	Glycol		WC Method		NEG	NEG	NEG
luid Condition	WEAR METAL	S	method	limit/base	current	history1	history2
he BN result indicates that there is suitable	Iron	ppm	ASTM D5185m	>120	31	23	18
kalinity remaining in the oil. The condition of the	Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
I is suitable for further service.	Nickel	ppm	ASTM D5185m	>5	0	0	<1
	Titanium	ppm	ASTM D5185m	>2	0	0	0
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	2	<1	0
	Lead	ppm	ASTM D5185m	>40	3	2	4
	Copper	ppm	ASTM D5185m	>330	<1	0	<1
	Tin	ppm	ASTM D5185m	>15	0	<1	<1
	Vanadium	ppm	ASTM D5185m		0	0	0
	Cadmium	ppm	ASTM D5185m		0	0	0
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m	0	2	5	6
	Barium	ppm	ASTM D5185m	0	0	0	0
	Molybdenum	ppm	ASTM D5185m	60	60	59	59
	Manganese	ppm	ASTM D5185m	0	0	<1	<1
	Magnesium	ppm	ASTM D5185m	1010	871	884	947
	Calcium	ppm	ASTM D5185m	1070	1021	1042	1062
	Phosphorus	ppm	ASTM D5185m	1150	876	940	1017
	Zinc	ppm	ASTM D5185m	1270	1143	1133	1241
	Sulfur	ppm	ASTM D5185m	2060	2775	3330	3711
	CONTAMINAN	ITS	method	limit/base		history1	history2
	Silicon	ppm	ASTM D5185m	>25	3	3	3
	Sodium	ppm	ASTM D5185m		0	1	1
	Potassium	ppm	ASTM D5185m		3	<1	2
	Fuel	%	ASTM D3524	>3.0	<1.0	<1.0	<1.0
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	*ASTM D7844	>4	<b>4</b>	2.7	3
	Nitration	Abs/cm	*ASTM D7624		9.0	7.3	7.6
	Sulfation	Abs/.1mm	*ASTM D7415	>30	24.3	21.2	23.2
	FLUID DEGRA		method	limit/base	current	history1	history2
	Oxidation	Abs/.1mm	*ASTM D7414	>25	13.7	12.8	13.5



# **OIL ANALYSIS REPORT**





		VISUAL		method	limit/base	current	history1	history2
		White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
		Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
		Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
$\sim$		Silt	scalar	*Visual	NONE	NONE	NONE	NONE
-		Debris	scalar	*Visual	NONE	NONE	NONE	NONE
		Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
8/23	Sep11/23 -		scalar	*Visual	NORML	NORML	NORML	NORML
Mar28/23 May24,23	Sep1	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
		Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
		Free Water	scalar	*Visual		NEG	NEG	NEG
$\bigwedge$	_	FLUID PROPE	RTIES	method	limit/base	current	history1	history2
		Visc @ 100°C	cSt	ASTM D445	15.4	14.7	14.2	14.9
		GRAPHS						
		Ferrous Alloys						
/23	/23	30 iron						
Mar28/23 May24/23	Sep11/23	25 - nickel		/				
C		E 15	/					
		10						
		5-						
		Jun 10/22 Nov30/22	Mav24/23	Sep 11/23	Nav6/23			
		Non-ferrous Meta						
Mar28/23 May24/23	Sep11/23 -	<sup>10</sup> T		· · · · · · · · · · · · · · · · · · ·				
Mar2 May2	Sep1	8 - copper						
		second tin						
		6-						
		4						
			Anna and	Conceptor and the second	and a local design of the			
		2	and a state of the	A STATE OF A				
		0	and the Real Property lies of the lies of		_			
		Jun 10/22 Nov30/22	May24/23	Sep11/23	Nav6/23			
		Jun Novi	May	Sep	No			
		Viscosity @ 100°C	2			Base Number		
		19 18 Abnormal			10.0	Base	~	
		18 - Abnormal			≈ 8.0			
					B/HO>	X		
		ට <sup>16</sup> Base 15 දී 14			0.0 Base Number (mg KOH/g)	$\lambda$	/	
		ा इं <sub>14</sub>				$\setminus$ /		
		10			ase Nr	$  \rangle / /$		
		Abnormal			<sup>20</sup> 2.0	$\lambda$		
		11			0.0	V		
		Jun 10/22 Nov30/22	Mav24/23	Sep11/23	Nov6/23	Jun 10/22 Nov30/22	Mar28/23 May24/23	Sep11/23 Nov6/23
		Jun1 Nov3	May2	Sep1	Nov	Junl	Marź May2	Sep 1 Nov
4	Laboratory	: WearCheck USA - {	501 Madi	son Ave Ca	rv NC 27519	GEL Env	ironmental - 625 -	Harrison Hauling
	Sample No.		Received		Nov 2023			Industrial Pkwy
	Lab Number	: 06002065	Diagnos	ed : 09	Nov 2023			Harrison, MI
TESTING LABORATORY	Unique Number		Diagnost		athan Hester		0	US 48625
Certificate L2367	Test Package	e : FLEET ( Additional , contact Customer Serv			2			alenda Standen en@gflenv.com
		are outside of the ISO 1					ysianue	T:
- Denotes les			1020 300		nalion.			· · ·
		cifications are based on t				JCGM 106:2012	)	F:

Ġ

ŝ,

Submitted By: also GFL632 and GFL638 - Glenda Standen