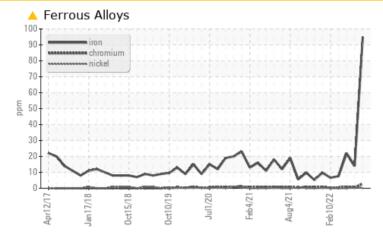


#### Component Diesel Engine Fluid PETRO CANADA DURON SHP 15W40 (8 GAL)

# COMPONENT CONDITION SUMMARY

Machine Id 10708



### RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC	C TEST	<b>FRESULT</b>	S			
Sample Status				ABNORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>100	<b>4</b> 95	14	22

Customer Id: GFL045 Sample No.: GFL0060053 Lab Number: 05891930 Test Package: FLEET



To manage this report scan the QR code

*To discuss the diagnosis or test data:* Doug Bogart +1 (800)237-1369 x4016 <u>dougb@wearcheckusa.com</u>

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

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.

### HISTORICAL DIAGNOSIS



# 06 Dec 2022 Diag: Don Baldridge

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

### 30 Aug 2022 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.

### 26 May 2022 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

WEAR

# Machine Id **10708**

Component

Diesel Engine

# PETRO CANADA DURON SHP 15W40 (8 GAL)

## DIAGNOSIS

### Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

### 🔺 Wear

Cylinder, crank, or cam shaft wear is indicated.

#### Contamination

There is no indication of any contamination in the oil.

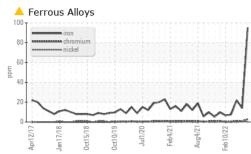
### Fluid Condition

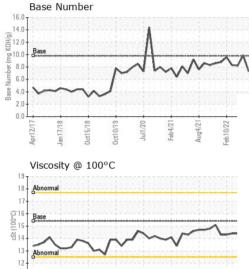
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

L)		r2017 Jan20	0ct2018 0ct2019	Jul2020 Feb2021 Aug2021 F	eb2022	
SAMPLE INFORMA	ATION	method	limit/base	current	history 1	history 2
Sample Number		Client Info		GFL0060053	GFL0060121	GFL0052214
Sample Date		Client Info		06 Jul 2023	06 Dec 2022	30 Aug 2022
Machine Age h	nrs	Client Info		15164	15164	15164
Oil Age h	nrs	Client Info		15164	17418	16750
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL
CONTAMINATIC	N	method	limit/base	current	history 1	history 2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history 1	history 2
lron p	opm	ASTM D5185m	>100	<b>9</b> 5	14	22
	opm	ASTM D5185m	>20	3	<1	<1
	pm	ASTM D5185m	>4	<1	<1	0
	pm	ASTM D5185m		0	<1	0
	pm	ASTM D5185m	>3	0	0	<1
	pm	ASTM D5185m	>20	6	6	5
Lead p	opm	ASTM D5185m	>40	0	<1	<1
Copper p	opm	ASTM D5185m	>330	3	<1	1
Tin p	opm	ASTM D5185m	>15	<1	<1	<1
Vanadium p	opm	ASTM D5185m		0	<1	0
Cadmium p	opm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history 1	history 2
Boron p	opm	ASTM D5185m	0	1	218	3
Barium p	opm	ASTM D5185m	0	0	0	0
Molybdenum p	opm	ASTM D5185m	60	62	129	59
Manganese p	opm	ASTM D5185m	0	<1	<1	<1
Magnesium p	opm	ASTM D5185m	1010	935	738	848
Calcium p	opm	ASTM D5185m	1070	1061	1748	1031
Phosphorus p	opm	ASTM D5185m	1150	960	739	980
	opm	ASTM D5185m		1180	926	1212
Sulfur p	opm	ASTM D5185m	2060	2879	2864	2711
CONTAMINANTS	S	method	limit/base	current	history 1	history 2
	opm	ASTM D5185m		6	7	2
	opm	ASTM D5185m		38	0	6
Potassium p	opm	ASTM D5185m	>20	11	5	8
INFRA-RED		method		current	history 1	history 2
Soot %	%	*ASTM D7844		2	1.9	0.3
	Abs/cm	*ASTM D7624		16.4	13.7	10.4
Sulfation A	lbs/.1mm	*ASTM D7415	>30	29.4	25.6	21.2
FLUID DEGRADA	TION	method	limit/base	current	history 1	history 2
Oxidation A	lbs/.1mm	*ASTM D7414	>25	27.3	21.0	18.1
Base Number (BN)				7.3	9.9	8.2



# **OIL ANALYSIS REPORT**





eb4/21

Aug4/21

VISUAL		method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPE	RTIES	method	limit/base	current	history 1	history 2
Visc @ 100°C	cSt	ASTM D445	15.4	14.0	13.2	14.4
GRAPHS						
80 - nickel						
60 40 20 0 10 0 10 0 10 0 10 0 10 0 10 1		Feb4421				



Apr12/17

Jan 17/18

lct15/18

Test Package : FLEET Contact: ELVIN RODRIGUEZ Certificate L2367 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)

Diagnostician : Doug Bogart

: 07 Jul 2023

: 09 Jul 2023

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

Received

Diagnosed

: GFL0060053

: 05891930

Laboratory

Sample No.

Lab Number

Unique Number : 10547740

Submitted By: MARIO OLIVAS

elvinrodriguez@gflenv.com

US 23323

T:

F:

3821 Cook Blvd.

Chesapeake, VA

GFL Environmental - 045 - Tidewater

Page 4 of 4