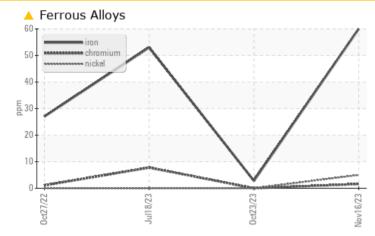


### Area (3BPZLJ0X1H) Machine Id 792M

Component Diesel Engine Fluid PETRO CANADA DURON SHP 15W40 (36 QTS)

# COMPONENT CONDITION SUMMARY



# RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

PROBLEMATIC	C TEST	RESULT	S			
Sample Status				ABNORMAL	NORMAL	NORMAL
Nickel	ppm	ASTM D5185m	>4	<u> </u>	0	0

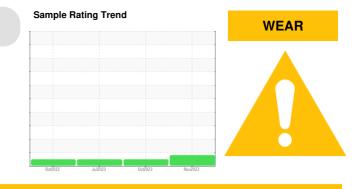
Customer Id: GFL410 Sample No.: GFL0059315 Lab Number: 06014799 Test Package: FLEET



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**

There are no recommended actions for this sample.

## **HISTORICAL DIAGNOSIS**

# 23 Oct 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.

#### 18 Jul 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.

27 Oct 2022 Diag: Wes Davis

#### NORMAL



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



# **OIL ANALYSIS REPORT**

#### Area (3BPZLJ0X1H) Machine Id 792M Component

# **Diesel Engine**

Fluid PETRO CANADA DURON SHP 15W40 (36 QTS)

# DIAGNOSIS

## Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

## 📥 Wear

Valve wear is indicated. All other component wear rates are normal.

## 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.

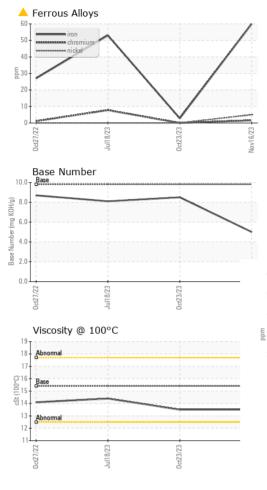
TS)						
SAMPLE INFOR		method	<sup>2</sup> Juizo23	oct2023 N	history1	history2
Sample Number		Client Info	IIIII/Dase	GFL0059315	GFL0059126	GFL0084907
Sample Date		Client Info		16 Nov 2023	23 Oct 2023	18 Jul 2023
Vachine Age	hrs	Client Info		16947	16815	16528
Oil Age	hrs	Client Info		16659	287	188
Oil Changed	1115	Client Info		N/A	N/A	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL
		method	limit/base	-	-	-
Fuel		WC Method		current	history1 <1.0	history2
				<1.0 NEG		
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	-				NEG	
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	60	3	53
Chromium	ppm	ASTM D5185m		2	0	8
Nickel	ppm	ASTM D5185m	>4	<mark>▲</mark> 5	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	1	4
Lead	ppm	ASTM D5185m	>40	<1	0	0
Copper	ppm	ASTM D5185m	>330	13	<1	2
Tin	ppm	ASTM D5185m	>15	2	<1	0
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	0	2	5
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	60	56	66
Manganese	ppm	ASTM D5185m		1	0	<1
Magnesium	ppm	ASTM D5185m	1010	903	914	1048
Calcium	ppm	ASTM D5185m	1070	1028	1057	1165
Phosphorus	ppm	ASTM D5185m	1150	941	982	1117
Zinc	ppm	ASTM D5185m	1270	1187	1214	1363
Sulfur	ppm	ASTM D5185m	2060	2008	2824	3558
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	8	6
Sodium	ppm	ASTM D5185m		6	3	13
Potassium	ppm	ASTM D5185m	>20	2	1	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1.3	0.1	1
Nitration	Abs/cm	*ASTM D7624	>20	11.1	5.8	9.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.7	17.7	21.1
FLUID DEGRA		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.7	13.7	16.2
Base Number (BN)	mg KOH/g	ASTM D2896		5.0	8.5	8.1
(=, •)	0					

Sample Rating Trend

**WEAR** 



# **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
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	_ Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Nov16/23	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
No	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	history1	history
	Visc @ 100°C	cSt	ASTM D445	15.4	13.5	13.5	14.4
	GRAPHS Ferrous Alloys						
	Non-ferrous Meta		0ct23/23	Nov16/23	Base Number		
	19 18 <b>- Abnormal</b>			10.0			
	17						
	⊋ <sup>16</sup> Base			(0,000) (0,00) (0,000)			
	D 16 Base 15 53 14			ja 20.0			
	3 14-			4.0			
	13 Abnormal			88 2.0			
	12						
	11		/23	0.0	727	73	2
	0ct27/22 Jul18/23		0ct23/23	Nov16/23	0ct27/22	Jul18/23	
Laboratory Sample No. Lab Number	: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0059315 <b>Received</b> : 22 Nov 2023 : 06014799 <b>Diagnosed</b> : 25 Nov 2023 : 10753943 <b>Diagnostician</b> : Don Baldridge : FLEET ontact Customer Service at 1-800-237-1369. re outside of the ISO 17025 scope of accreditation. fications are based on the simple acceptance decision rule (J			GFL Environmental - 410 - Michigan We 39000 Van Born I Wayne, US 481 Contact: Belal Dghei bdgheish@gflenv.cc T: (734)714-23			

Submitted By: Belal Dgheish

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