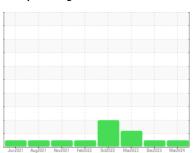


# **OIL ANALYSIS REPORT**

## Sample Rating Trend









### Machine Id 806 M Component Diesel Engine Fluid

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

# DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil

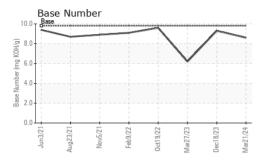
## **Fluid Condition**

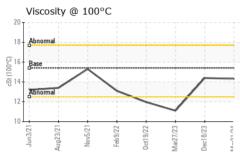
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

	,	Jun2021 /	Aug2021 Nov2021 Feb202	22 Oct2022 Mar2023 Dec2023	Mar2024	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0108753	GFL0105728	GFL0073930
Sample Date		Client Info		21 Mar 2024	18 Dec 2023	27 Mar 2023
Machine Age	hrs	Client Info		14741	12703	12703
Oil Age	hrs	Client Info		0	12703	11676
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	0.0	<b>△</b> 7.5
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>80	4	4	43
Chromium	ppm	ASTM D5185m	>5	0	<1	2
Nickel	ppm	ASTM D5185m	>2	<1	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>30	<1	2	2
Lead	ppm	ASTM D5185m	>30	0	0	6
Copper	ppm	ASTM D5185m	>150	0	12	145
Tin	ppm	ASTM D5185m		0	0	5
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<1	18	2
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m	60	58	61	54
Manganese	ppm	ASTM D5185m	0	0	0	1
Magnesium	ppm	ASTM D5185m	1010	1000	879	819
Calcium	ppm	ASTM D5185m	1070	1138	986	990
Phosphorus	ppm	ASTM D5185m	1150	1087	843	855
Zinc	ppm	ASTM D5185m	1270	1293	1117	1130
Sulfur	ppm	ASTM D5185m	2060	3860	2778	2245
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	2	8	6
Sodium	ppm	ASTM D5185m		1	0	6
Potassium	ppm	ASTM D5185m	>20	0	1	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0.1	0.3
Nitration	Abs/cm	*ASTM D7624		5.6	4.5	11.2
Sulfation	Abs/.1mm	*ASTM D7415		18.2	17.8	22.3
FLUID DEGRAI	DAT <u>ION</u>	method	limit/base	current	history1	history2
FLUID DEGRA						
	Abs/.1mm	method *ASTM D7414 ASTM D2896	limit/base >25 9.8	current 13.9 8.6	history1 13.3 9.3	history2 23.6 6.2



## **OIL ANALYSIS REPORT**

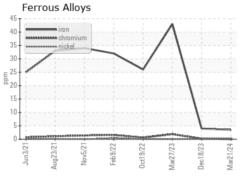


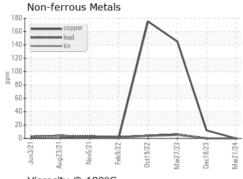


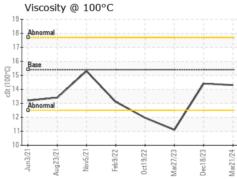
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

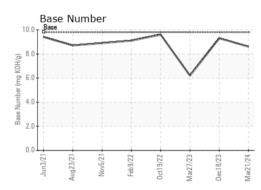
L LOID PROPI	EHIIES	memod			riistory i	nistoryz
Visc @ 100°C	cSt	ASTM D445	15.4	14.3	14.4	<u>▲</u> 11.1

## **GRAPHS**













Laboratory Sample No.

Test Package : FLEET

Lab Number : 06127571 Unique Number : 10941722

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0108753 Received : 25 Mar 2024 **Tested** : 26 Mar 2024

Diagnosed : 26 Mar 2024 - Wes Davis

GFL Environmental - 415 - Michigan East

6200 Elmridge Sterling Heights, MI US 48313

Contact: Frank Wolak fwolak@gflenv.com T: (586)825-9514

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)

Report Id: GFL415 [WUSCAR] 06127571 (Generated: 03/26/2024 15:37:28) Rev: 1

Submitted By: Frank Wolak