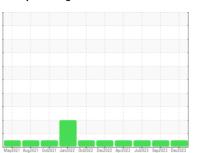


# **OIL ANALYSIS REPORT**

### Sample Rating Trend







Machine Id
7843M
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

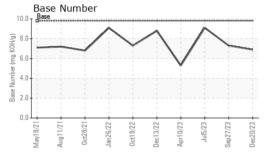
## **Fluid Condition**

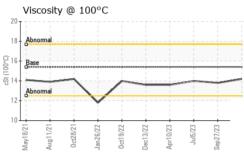
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORM	AATION			022 Dec2022 Apr2023 Jul2023 Sep2		history ()
	MATION		limit/base	current	history1	history2
Sample Number		Client Info		GFL0107077	GFL0096541	GFL0082764
Sample Date		Client Info		20 Dec 2023	27 Sep 2023	05 Jul 2023
Machine Age	hrs	Client Info		8712	8219	7681
Oil Age	hrs	Client Info		600	600	600
Oil Changed		Client Info		Changed	Changed	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATI	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	17	11	4
Chromium	ppm	ASTM D5185m	>20	1	<1	0
Nickel	ppm	ASTM D5185m	>5	<1	0	<1
Titanium	ppm	ASTM D5185m	>2	0	<1	0
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	4	<1	1
Lead	ppm	ASTM D5185m	>40	<1	<1	0
Copper	ppm	ASTM D5185m	>330	3	2	2
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	1	<1	4
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	58	61	59
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	923	997	880
Calcium	ppm	ASTM D5185m	1070	1090	1116	1112
Phosphorus	ppm	ASTM D5185m	1150	989	970	1013
Zinc	ppm	ASTM D5185m	1270	1182	1251	1224
Sulfur	ppm	ASTM D5185m	2060	2656	2717	3272
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	12	6	3
Sodium	ppm	ASTM D5185m		5	4	0
Potassium	ppm	ASTM D5185m	>20	<1	1	1
INFRA-RED		method	limit/base	current	history1	history2
INFRA-RED		memou				
Soot %	%	*ASTM D7844	>4	1	0.6	0.2
Soot %	% Abs/cm Abs/.1mm	*ASTM D7844	>4 >20 >30	1 8.8 20.3	0.6 7.8 20.0	0.2 6.0 19.0
Soot % Nitration	Abs/cm Abs/.1mm	*ASTM D7844 *ASTM D7624	>20	8.8	7.8	6.0
Soot % Nitration Sulfation FLUID DEGRAD	Abs/cm Abs/.1mm	*ASTM D7844 *ASTM D7624 *ASTM D7415 method	>20 >30 limit/base	8.8 20.3 current	7.8 20.0 history1	6.0 19.0 history2
Soot % Nitration Sulfation	Abs/cm Abs/.1mm	*ASTM D7844 *ASTM D7624 *ASTM D7415	>20 >30 limit/base >25	8.8 20.3	7.8 20.0	6.0 19.0



# **OIL ANALYSIS REPORT**

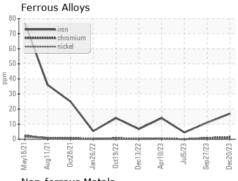


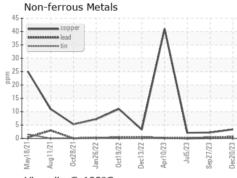


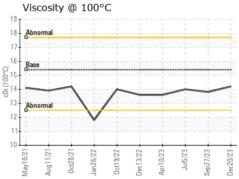
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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

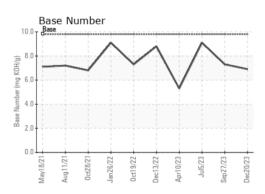
FLUID PROPERTIES		method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.2	13.8	14.0

## **GRAPHS**













Certificate L2367

Laboratory Sample No. Lab Number Test Package : FLEET

**Unique Number** 

: GFL0107077 : 06053300 : 10819249

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 08 Jan 2024 Diagnosed

: 09 Jan 2024 Diagnostician : Wes Davis

Pontiac, MI US 48340 Contact: Ricky Matthews rickymathews@gflenv.com T: (586)825-9514

GFL Environmental - 465 - Pontiac

\* - 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)

888 Baldwin