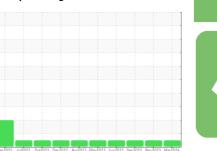


# **OIL ANALYSIS REPORT**

## Sample Rating Trend









Machine Id
654M
Component
Diesel Engine
Fluid

PETRO CANADA DURON SHP 15W40 (28 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

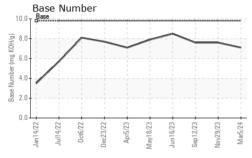
## **Fluid Condition**

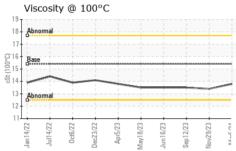
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORI	AOLTAN	method	022 0ct2022 0cc2022 Apr2	current	history1	history2
Sample Number		Client Info		GFL0107848	GFL0096594	GFL0091509
Sample Date		Client Info		05 Mar 2024	29 Nov 2023	12 Sep 2023
Machine Age	hrs	Client Info		8810	8224	7697
Oil Age	hrs	Client Info		600	600	600
Oil Changed	1113	Client Info		N/A	Changed	Not Changd
		Ciletit IIIIO		NORMAL	NORMAL	NORMAL
Sample Status				NORMAL		
CONTAMINAT	ION	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 METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	11	13	10
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>5	4	0	0
Titanium	ppm	ASTM D5185m	>2	0	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	<1	2	2
Lead	ppm	ASTM D5185m	>40	0	0	<1
Copper	ppm	ASTM D5185m	>330	<1	2	2
Tin	ppm	ASTM D5185m	>15	1	0	<1
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	2	2
Barium	ppm	ASTM D5185m	0	0	2	0
Molybdenum	ppm	ASTM D5185m	60	56	59	60
Manganese	ppm	ASTM D5185m	0	0	0	<1
Magnesium	ppm	ASTM D5185m	1010	1033	865	1070
Calcium	ppm	ASTM D5185m	1070	1169	1068	1225
Phosphorus	ppm	ASTM D5185m	1150	996	871	1009
Zinc	ppm	ASTM D5185m	1270	1279	1127	1345
Sulfur	ppm	ASTM D5185m	2060	2845	2740	3344
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	7	5
Sodium	ppm	ASTM D5185m		2	7	6
Potassium	ppm	ASTM D5185m	>20	0	3	1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.5	0.4	0.3
Nitration	Abs/cm	*ASTM D7624	>20	8.4	7.5	7.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.3	19.6	19.1
FLUID DEGRA	NOITAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.9	15.4	15.5
Base Number (BN)	mg KOH/g	ASTM D2896		7.1	7.6	7.6
Dase Mullipel (DIV)	mg ROMg	AOTIVI DZ030	5.0	7.1	7.0	7.0



## **OIL ANALYSIS REPORT**

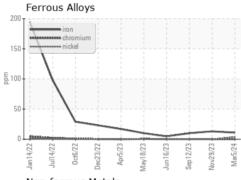


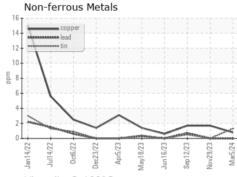


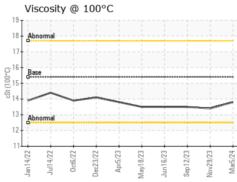
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

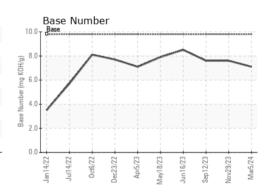
FLUID PROPE	RHES	metnoa	ilmit/base	current	nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	15.4	13.8	13.4	13.5

## **GRAPHS**













Laboratory Sample No.

: GFL0107848 Lab Number : 06110809 Unique Number : 10914306 Test Package : FLEET

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

Diagnosed

: 06 Mar 2024 : 07 Mar 2024 : 07 Mar 2024 - Wes Davis GFL Environmental - 465 - Pontiac 888 Baldwin

Pontiac, MI US 48340 Contact: Ricky Matthews rickymathews@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)

Submitted By: Ricky Matthews