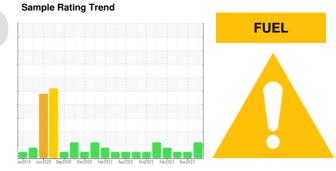


## **OIL ANALYSIS REPORT**



# Machine Id

427078-402332 Component Diesel Engine PETRO CANADA DURON SHP 15W40 (--- GAL)

	SAMPLE INFORMA	ATION	method	limit/base	current	history1	history2
	Sample Number		Client Info		GFL0102248	GFL0102273	GFL0056959
mpling has been	Sample Date		Client Info		07 Apr 2024	18 Dec 2023	20 Mar 2023
ly resample to	Machine Age	nrs	Client Info		0	18732	16924
	Oil Age	nrs	Client Info		600	600	600
	Oil Changed		Client Info		Changed	Changed	Changed
ormal.	Sample Status				ABNORMAL	NORMAL	NORMAL
f fuel present in the e of fuel in the oil.	CONTAMINATIO	N	method	limit/base	current	history1	history2
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
ere is suitable uel is present in the	WEAR METALS		method	limit/base	current	history1	history2
The oil is no longer	lron p	opm	ASTM D5185m	>120	17	6	4
e of contaminants.		ppm	ASTM D5185m		<1	0	<1
	1	opm		>5	<1	0	0
		opm	ASTM D5185m	>2	0	0	0
		opm		>2	0	0	0
		pm	ASTM D5185m	>20	3	2	2
		pm	ASTM D5185m		2	1	0
	-	pm	ASTM D5185m	>330	1	<1	<1
		pm	ASTM D5185m	>15	1	<1	<1
		opm	ASTM D5185m		0	0	<1
		ppm	ASTM D5185m		0	0	0
	ADDITIVES		method	limit/base	current	history1	history2
	Boron p	opm	ASTM D5185m	0	0	1	5
	Barium p	opm	ASTM D5185m	0	0	0	0
	Molybdenum p	opm	ASTM D5185m	60	59	56	55
	Manganese p	opm	ASTM D5185m	0	0	<1	<1
	Magnesium p	opm	ASTM D5185m	1010	1006	901	875
	Calcium p	opm	ASTM D5185m	1070	1090	985	997
	Phosphorus p	opm	ASTM D5185m	1150	1005	928	930
	Zinc p	opm	ASTM D5185m	1270	1273	1189	1170
	Sulfur p	opm	ASTM D5185m	2060	3016	2436	2820
	CONTAMINANTS	S	method	limit/base	current	history1	history2
	Silicon p	opm	ASTM D5185m	>25	4	3	4
		opm	ASTM D5185m		6	14	36
		opm	ASTM D5185m	>20	0	<1	2
	Fuel %	%	ASTM D3524	>3.0	<b>4</b> .3	<1.0	<1.0
	INFRA-RED		method	limit/base	current	history1	history2
	Soot % %	%	*ASTM D7844	>4	0.8	0.4	0.3
	Nitration A	Abs/cm	*ASTM D7624	>20	10.2	9.6	7.7
	Sulfation A	lbs/.1mm	*ASTM D7415	>30	23.0	21.8	18.5
	FLUID DEGRADA	TION	method	limit/base	current	history1	history2
		lbs/.1mm	*ASTM D7414	>25	19.2	17.5	14.6

Base Number (BN) mg KOH/g ASTM D2896 9.8

4.8

5.9

The oil change at the time of noted. We recommend an ea monitor this condition.

#### Wear

All component wear rates are

### Contamination

There is a moderate amount oil. Tests confirm the presen

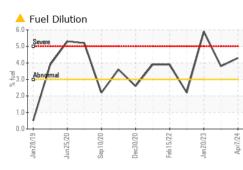
#### Fluid Condition

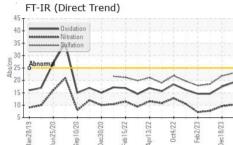
The BN result indicates that alkalinity remaining in the oil oil and is lowering the viscos serviceable due to the prese

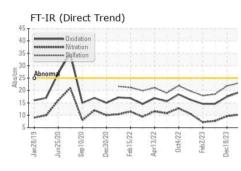
8.1

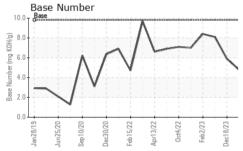


## **OIL ANALYSIS REPORT**



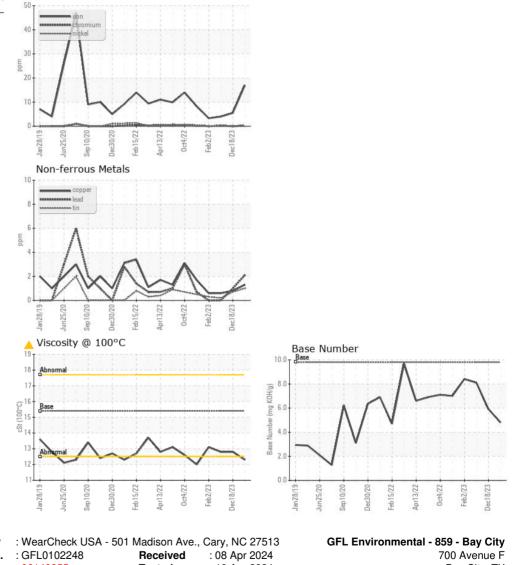






VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
	DTIEO	and a file of the	Pres 10 /le se se s		In the term of	history O
FLUID PROPE	RHE5	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	<b>12.3</b>	12.8	12.8
GRAPHS						

Ferrous Alloys



Laboratory Sample No. Lab Number : 06140855 Tested : 10 Apr 2024 Bay City, TX Unique Number : 10965663 Diagnosed : 10 Apr 2024 - Wes Davis US 77414 Test Package : FLEET (Additional Tests: FuelDilution, PercentFuel) Contact: JONATHON BROWN Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. jonathon.brown@gflenv.com \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F:

Report Id: GFL859 [WUSCAR] 06140855 (Generated: 04/10/2024 17:13:25) Rev: 1