

# **OIL ANALYSIS REPORT**

# {UNASSIGNED} 322002-880

Component

**Gasoline Engine** 

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

# Sample Rating Trend



# DIAGNOSIS

# Recommendation

Resample at the next service interval to monitor. ( Customer Sample Comment: Sample only )

All component wear rates are normal.

# Contamination

There is no indication of any contamination in the

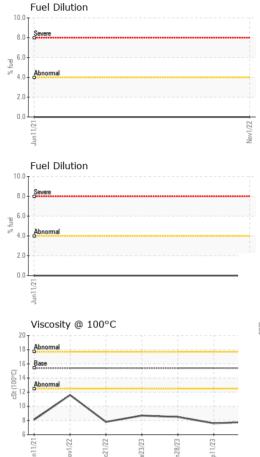
# **Fluid Condition**

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	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0094855	GFL0088284	GFL0077498
Sample Date		Client Info		06 Nov 2023	11 Sep 2023	28 Jun 2023
Machine Age	mls	Client Info		244523	242223	238991
Oil Age	mls	Client Info		5569	3269	37
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>150	29	22	13
Chromium	ppm	ASTM D5185m	>20	2	2	0
Nickel	ppm	ASTM D5185m	>5	<1	<1	0
Titanium	ppm	ASTM D5185m		0	0	19
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>40	4	2	<1
Lead	ppm		>50	0	<1	0
Copper	ppm	ASTM D5185m	>155	<1	<1	4
Tin	ppm	ASTM D5185m	>10	0	<1	0
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	21	38	71
Barium	ppm	ASTM D5185m	0	<1	0	0
Molybdenum	ppm	ASTM D5185m	60	59	62	66
Manganese	ppm	ASTM D5185m	0	<1	1	0
Magnesium	ppm	ASTM D5185m	1010	424	477	721
Calcium	ppm	ASTM D5185m	1070	799	851	930
Phosphorus	ppm	ASTM D5185m	1150	477	603	685
Zinc	ppm	ASTM D5185m	1270	580	624	810
Sulfur	ppm	ASTM D5185m	2060	2327	2833	2541
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m		14	14	8
Sodium	ppm	ASTM D5185m	>400	<1	2	3
Potassium	ppm	ASTM D5185m	>20	2	2	1
Fuel	%	ASTM D3524	>4.0	<1.0	<1.0	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	12.5	10.0	10.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.3	19.3	19.1
FLUID DEGRA	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.5	13.5	14.9
Base Number (BN)	mg KOH/g	ASTM D2896		3.2	3.9	5.2
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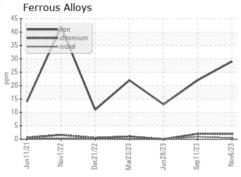
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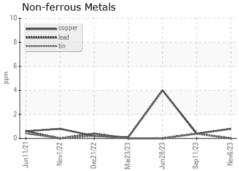


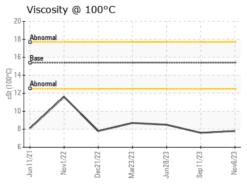
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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
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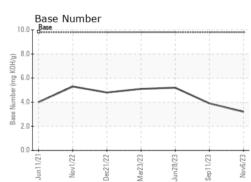
FLUID PROPERTIES		method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	7.8	7.6	8.5

# **GRAPHS**













Laboratory Sample No. Lab Number

**Unique Number** 

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0094855 : 06002094 : 10735856

Received Diagnosed

: 08 Nov 2023 : 10 Nov 2023 Diagnostician : Angela Borella

**Test Package**: FLEET (Additional Tests: FuelDilution, PercentFuel)

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)

GFL Environmental - 625 - Harrison Hauling

4102 Industrial Pkwy Harrison, MI US 48625

Contact: Glenda Standen gstanden@gflenv.com

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