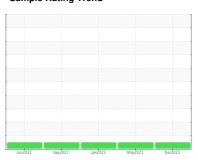


# **OIL ANALYSIS REPORT**

Sample Rating Trend



NORMAL



Machine Id **352035** 

Component

Gasoline Engine

PETRO CANADA DURON UHP 5W30 (--- 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

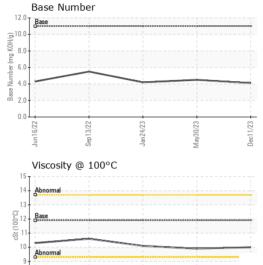
### **Fluid Condition**

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

iAL)		Jun 2022	Sep2022	Jan2023 May2023	Dec2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0097479	GFL0067576	GFL0067561
Sample Date		Client Info		11 Dec 2023	30 May 2023	24 Jan 2023
Machine Age	mls	Client Info		195330	186430	180445
Oil Age	mls	Client Info		0	5000	0
Oil Changed		Client Info		N/A	Changed	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>4.0	<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	>150	7	21	20
Chromium	ppm	ASTM D5185m	>20	<1	1	<1
Nickel	ppm	ASTM D5185m	>5	0	1	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m		1	3	3
Lead	ppm	ASTM D5185m	>50	0	1	0
Copper	ppm	ASTM D5185m		<1	0	<1
Tin	ppm	ASTM D5185m	>10	0	<1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	17	30	20
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m	64	62	141	134
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m	1160	379	574	511
Calcium	ppm	ASTM D5185m		966	1099	998
Phosphorus	ppm	ASTM D5185m	1160	582 694	751 951	632 802
Zinc Sulfur	ppm ppm	ASTM D5185m ASTM D5185m	1260 3000	1507	2382	2486
CONTAMINAN		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	8	11	9
Sodium	ppm	ASTM D5185m	>400	0	2	2
Potassium	ppm	ASTM D5185m	>20	<1	3	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0.1
Nitration	Abs/cm	*ASTM D7624	>20	9.5	10.9	11.6
Sulfation	Abs/.1mm	*ASTM D7415		18.7	23.3	24.3
FLUID DEGRADATION method limit/base current history1 history2						
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.1	16.7	18.2
Base Number (BN)	mg KOH/g	ASTM D2896	11.0	4.1	4.5	4.2
	0					



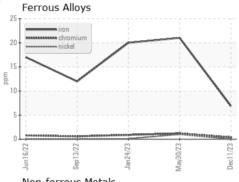
# **OIL ANALYSIS REPORT**

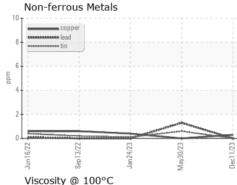


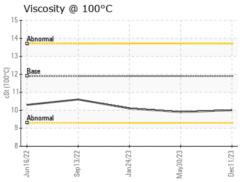
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

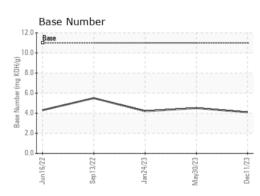
FLUID PROPERTIES		method			history1	history2	
Visc @ 100°C	cSt	ASTM D445	11.9	10.0	9.9	10.1	

### **GRAPHS**













Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10789599 Test Package : FLEET

: GFL0097479 : 06034370

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 14 Dec 2023 Diagnosed

: 18 Dec 2023 Diagnostician : Don Baldridge

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.

GFL Environmental - 641 - Alpena 1241 KING SETTLEMENT RD

ALPENA, MI US 49707

Contact: DYLAN TOLAN dylan.tolan@gflenv.com T: (989)854-7203

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)