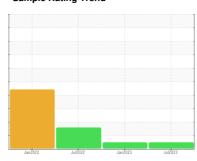


# **OIL ANALYSIS REPORT**

Sample Rating Trend



NORMAL



726027 Component

**Diesel Engine** 

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

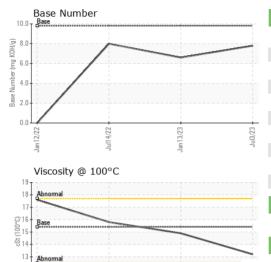
### **Fluid Condition**

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

GAL)		Jan202	2 Jul2022	Jan2023 Ji	u2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0081261	GFL0071170	GFL0053731
Sample Date		Client Info		03 Jul 2023	13 Jan 2023	14 Jul 2022
Machine Age	hrs	Client Info		8796	8449	8031
Oil Age	hrs	Client Info		600	600	600
Oil Changed		Client Info		N/A	Changed	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	.S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>80	17	75	<u> </u>
Chromium	ppm	ASTM D5185m	>5	<1	2	3
Nickel	ppm	ASTM D5185m	>2	<1	1	<1
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	<1	<1	0
Aluminum	ppm	ASTM D5185m	>30	8	5	7
Lead	ppm	ASTM D5185m	>30	0	1	1
Copper	ppm	ASTM D5185m	>150	<1	5	6
Tin	ppm	ASTM D5185m	>5	<1	<1	1
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	3	2	11
Barium	ppm	ASTM D5185m	0	0	4	0
Molybdenum	ppm	ASTM D5185m	60	68	66	73
Manganese	ppm	ASTM D5185m	0	<1	<1	1
Magnesium	ppm	ASTM D5185m	1010	1064	991	999
Calcium	ppm	ASTM D5185m	1070	1196	1162	1253
Phosphorus	ppm	ASTM D5185m	1150	1183	1005	1072
Zinc	ppm	ASTM D5185m	1270	1429	1336	1332
Sulfur	ppm	ASTM D5185m	2060	4043	2837	3270
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	4	7	7
Sodium	ppm	ASTM D5185m		2	10	11
Potassium	ppm	ASTM D5185m	>20	4	3	4
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5	1.1	<b>▲</b> 3.2
Nitration	Abs/cm	*ASTM D7624	>20	9.8	14.3	17.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.1	27.0	33.5
FLUID DEGRAI	OITAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.4	27.2	30.9
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.8	6.6	8.0



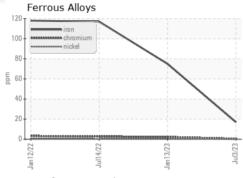
## **OIL ANALYSIS REPORT**

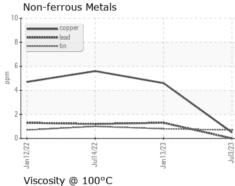


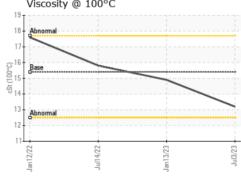
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

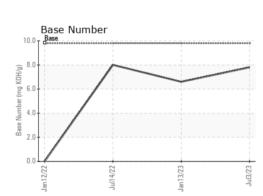
FLUID PROP	ERIIES	method			riistory i	History
Visc @ 100°C	cSt	ASTM D445	15.4	13.2	14.9	15.8

### **GRAPHS**













Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10560964 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0081261 : 05899608

Received Diagnosed

: 17 Jul 2023 : 17 Jul 2023 Diagnostician : 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)