

# **OIL ANALYSIS REPORT**

# ALEXANDER CITY 427128

Component **Diesel Engine** 

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

Sample Rating Trend



# DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil.

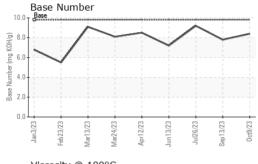
### **Fluid Condition**

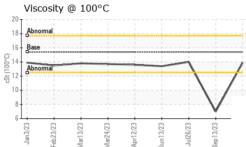
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Janičiūži Febičiūži Marčiūži Marčiūži Aprūčiūži Juničiūži Juničiūži Sepičiūži Gebčiūži						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0092421	GFL0079697	GFL0085980
Sample Date		Client Info		09 Oct 2023	13 Sep 2023	26 Jul 2023
Machine Age	hrs	Client Info		14661	14519	14276
Oil Age	hrs	Client Info		1067	925	402
Oil Changed		Client Info		Not Changd	N/A	Not Changd
Sample Status				NORMAL	ABNORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	0.7	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS method limit/base current history1 history2						
Iron	ppm	ASTM D5185m	>100	4	8	3
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	1	4	2
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	1	1	<1
Tin	ppm	ASTM D5185m	>15	<1	<1	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	14	18	47
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	61	61	59
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	905	900	820
Calcium	ppm	ASTM D5185m	1070	1039	1110	1072
Phosphorus	ppm	ASTM D5185m	1150	999	946	923
Zinc	ppm	ASTM D5185m	1270	1156	1192	1110
Sulfur	ppm	ASTM D5185m	2060	2962	2898	3107
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	5	5
Sodium	ppm	ASTM D5185m		3	4	2
Potassium	ppm	ASTM D5185m	>20	0	3	1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.7	0.2
Nitration	Abs/cm	*ASTM D7624	>20	5.4	8.3	5.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.4	19.7	17.6
FLUID DEGRADATION method limit/base current history1 history2						
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.2	15.2	12.6
Base Number (BN)	mg KOH/g	ASTM D2896		8.4	7.8	9.2
_accitation (DIV)	mg nong	.101111 D2000	5.0	<b>J.</b> .	7.0	0.2



# **OIL ANALYSIS REPORT**

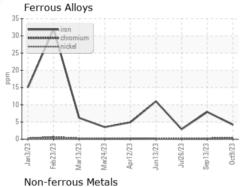




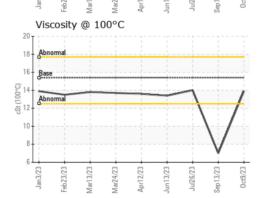
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

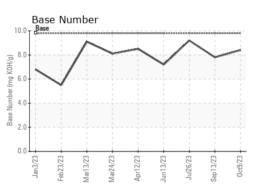
FLUID PROPE	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.9	<u>^</u> 7	14.0

## **GRAPHS**













Certificate L2367

Test Package : FLEET

Laboratory Sample No. Lab Number Unique Number : 10696545

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0092421 : 05979250

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Received Diagnosed

: 16 Oct 2023 : 16 Oct 2023 Diagnostician : Wes Davis

GFL Environmental - 172 - Montgomery-Alexander City-Tallahassee

Multiple Sites Montgomery, AL US 36108

Contact: RICHARD HATFIELD

rhatfield@gflenv.com

\* - 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) T:

F: