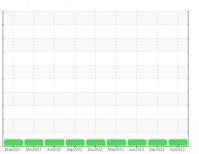


# **OIL ANALYSIS REPORT**

# Sample Rating Trend







# Machine Id 607M Component Diesel Engine Fluid PETRO CANAL

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

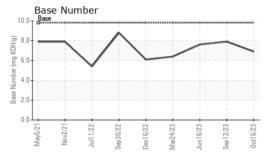
# **Fluid Condition**

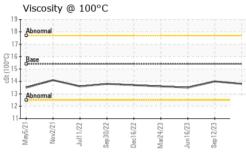
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

)N 3HP 13W40 (	- GAL)	May2021 No	/2021 Jul2022 Sep 2022	Dec2022 Mar2023 Jun2023 Sep20	23 Oct2023	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0096600	GFL0091510	GFL0082810
Sample Date		Client Info		16 Oct 2023	12 Sep 2023	16 Jun 2023
Machine Age	hrs	Client Info		13502	13267	11481
Oil Age	hrs	Client Info		600	600	600
Oil Changed		Client Info		Changed	Not Changd	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel	.0.1	WC Method	>3.0	<1.0	<1.0	<1.0
Glycol		WC Method	7 0.0	NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	28	16	11
Chromium	ppm	ASTM D5185m		<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver		ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m		3	2	1
Lead		ASTM D5185m	>40	ა 1	<1	<1
	ppm	ASTM D5185m		ı <1	<1	<1
Copper Tin	ppm		>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m ASTM D5185m	>15	<1	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
	ppm					
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	2	2	3
Barium	ppm	ASTM D5185m	0	<1	0	0
Molybdenum	ppm	ASTM D5185m	60	62	60	58
Manganese	ppm	ASTM D5185m	0	0	<1	<1
Magnesium	ppm	ASTM D5185m	1010	924	1059	986
Calcium	ppm	ASTM D5185m	1070	1110	1221	1071
Phosphorus	ppm	ASTM D5185m	1150	955	1054	986
Zinc	ppm	ASTM D5185m	1270	1272	1342	1273
Sulfur	ppm	ASTM D5185m	2060	2965	3642	3262
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	8	8	4
Sodium	ppm	ASTM D5185m		5	5	3
Potassium	ppm	ASTM D5185m	>20	2	1	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	1	0.6	0.4
Nitration	Abs/cm	*ASTM D7624	>20	8.8	7.1	8.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.5	19.6	20.0
FLUID DEGRADATION method limit/base current history1 history2						
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.3	14.9	15.7
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	6.9	7.9	7.6
Dasc Number (DIV)	my Normy	AO I WI DE030	0.0	0.0	1.0	7.0



# **OIL ANALYSIS REPORT**

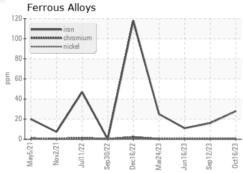


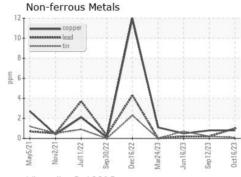


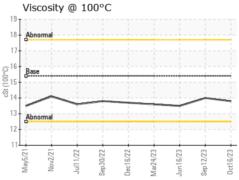
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

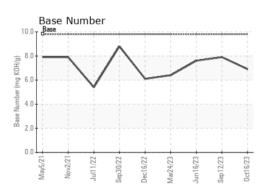
FLUID PROPE	RHES	metnoa	ilmit/base	current	nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	15.4	13.8	14.0	13.5

# **GRAPHS**













Certificate L2367

Laboratory

Sample No. Lab Number Unique Number : 10701736 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0096600 : 05984441

Received Diagnosed Diagnostician : Wes Davis

: 20 Oct 2023 : 20 Oct 2023

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)