

## **OIL ANALYSIS REPORT**

#### Sample Rating Trend

NORMAL





#### 1/027 Jan 2023 Mar/023 Apr/023 Jan 2023 Apr/023 Dav 2023 E-1/024

	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
	Sample Number		Client Info		GFL0115350	GFL0110917	GFL0090937
or.	Sample Date		Client Info		01 Mar 2024	08 Feb 2024	28 Dec 2023
	Machine Age	hrs	Client Info		6277	6136	5858
	Oil Age	hrs	Client Info		141	278	136
	Oil Changed		Client Info		Changed	Changed	Changed
the	Sample Status				NORMAL	NORMAL	NORMAL
	CONTAMINAT	ION	method	limit/base	current	history1	history2
	Fuel		WC Method	>5	<1.0	<1.0	<1.0
the	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	WEAR METALS		method	limit/base	current	history1	history2
	Iron	ppm	ASTM D5185m	>100	5	6	6
	Chromium	ppm	ASTM D5185m	>20	0	<1	0
	Nickel	ppm	ASTM D5185m		0	0	0
	Titanium	ppm	ASTM D5185m		0	<1	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m		2	2	2
	Lead	ppm	ASTM D5185m		0	0	0
	Copper	ppm	ASTM D5185m		۰ <1	<1	2
	Tin	ppm	ASTM D5185m		0	<1	<1
	Vanadium	ppm	ASTM D5185m	210	۰ <1	0	0
	Cadmium	ppm	ASTM D5185m		0	0	0
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m	0	6	9	<1
	Barium	ppm	ASTM D5185m	0	0	0	0
	Molybdenum	ppm	ASTM D5185m	60	65	60	61
	Manganese	ppm	ASTM D5185m	0	<1	<1	0
	Magnesium	ppm	ASTM D5185m	1010	955	1002	1034
	Calcium	ppm	ASTM D5185m	1070	1100	1057	1093
	Phosphorus	ppm	ASTM D5185m	1150	970	1077	1116
	Zinc	ppm	ASTM D5185m	1270	1203	1253	1360
	Sulfur	ppm	ASTM D5185m	2060	3012	3209	3260
	CONTAMINAN	ITS	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>25	2	3	4
	Sodium	ppm	ASTM D5185m		2	8	<1
	Potassium	ppm	ASTM D5185m	>20	0	1	<1
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	*ASTM D7844	>3	0.2	0.2	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	6.9	6.2	7.5
	Sulfation	Abs/.1mm	*ASTM D7415	>30	18.4	18.2	18.7
	FLUID DEGRA	DATION	method	limit/base	current	history1	history2
	Oxidation	Abs/.1mm	*ASTM D7414	>25	14.3	14.1	14.9
	Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.4	8.6	7.7
			2000				

# Machine Id 912069

#### Component **Diesel Engine** Fluid

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

### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monito

#### Wear

All component wear rates are normal.

#### Contamination

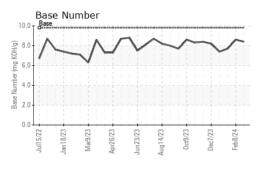
There is no indication of any contamination in t oil.

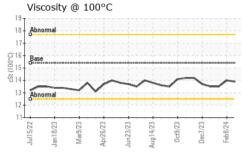
### Fluid Condition

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



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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
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.9	14.0	13.5
GRAPHS						

Ferrous Alloys

