

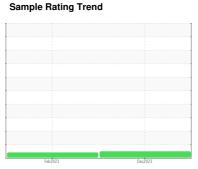
# **OIL ANALYSIS REPORT**



(TB7549) 913038 Component

**Diesel Engine** 

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





## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the

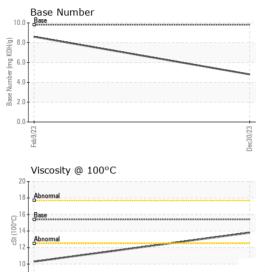
### **Fluid Condition**

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

	,		Feb2023	Dec2023		
SAMPLE INFO	ORMATION	method				history2
Sample Number		Client Info		GFL0069953	GFL0059603	
Sample Date		Client Info		30 Dec 2023	09 Feb 2023	
Machine Age	hrs	Client Info		2737	680	
Oil Age	hrs	Client Info		600	600	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	ATTENTION	
CONTAMINA	ATION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	0.6	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method	70.L	NEG	NEG	
<u> </u>						
WEAR META	ALS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	22	57	
Chromium	ppm	ASTM D5185m	>20	<1	1	
Nickel	ppm	ASTM D5185m	>5	1	8	
Titanium	ppm	ASTM D5185m	>2	<1	<1	
Silver	ppm	ASTM D5185m	>2	<1	<1	
Aluminum	ppm	ASTM D5185m	>20	2	9	
Lead	ppm	ASTM D5185m	>40	0	<1	
Copper	ppm	ASTM D5185m	>330	9	89	
Tin	ppm	ASTM D5185m	>15	1	6	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES	1-1-	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	5	202	
Barium	ppm		0	0	0	
Molybdenum	ppm	ASTM D5185m	60	59	117	
Manganese	ppm	ASTM D5185m		<1	5	
Magnesium		ASTM D5185m	1010	946	697	
Calcium	ppm	ASTM D5185m	1070	1038	1482	
	ppm					
Phosphorus	ppm	ASTM D5185m	1150	910	656	
Zinc	ppm	ASTM D5185m	1270	1252	812	
Sulfur	ppm	ASTM D5185m	2060	2523	2564	
CONTAMINA	ANTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	62	
Sodium	ppm	ASTM D5185m		3	6	
Potassium	ppm	ASTM D5185m	>20	0	21	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	8.0	0.1	
Nitration	Abs/cm	*ASTM D7624	>20	9.1	5.9	
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.5	19.2	
FLUID DEGR	RADATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.1	14.6	
Base Number (BN		ASTM D2896		4.8	8.6	
(Di	,	222000				



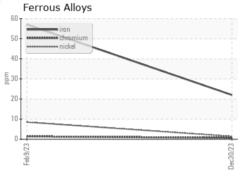
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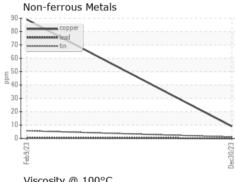


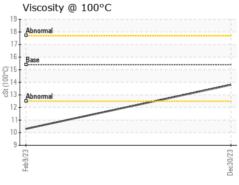
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	
Free Water	scalar	*Visual		NEG	NEG	

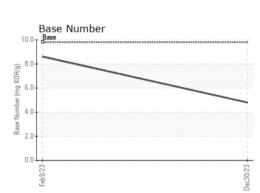
FLUID PROPI	EHILO	method			riistory i	HISTORYZ
Visc @ 100°C	cSt	ASTM D445	15.4	13.8	<b>1</b> 0.3	

## **GRAPHS**













Certificate L2367

Laboratory Sample No. Lab Number Test Package : FLEET

: 06067349 Unique Number : 10844026

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0069953 Recieved Diagnosed

: 22 Jan 2024 : 23 Jan 2024 Diagnostician : Wes Davis

GFL Environmental - 902 - Chilton HC

428 High St Chilton, WI US 53014 Contact: Keith Mueller keith.mueller@gflenv.com T: (920)374-1404

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)