

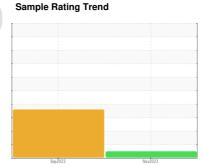
# **OIL ANALYSIS REPORT**



GFL035 934047 Component

**Diesel Engine** 

PETRO CANADA DURON SHP 15W40 (42 QTS)





## 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

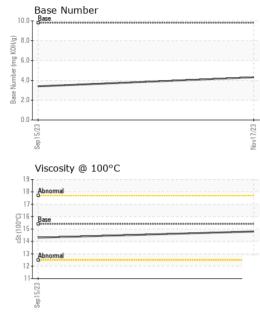
## **Fluid Condition**

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

•	,		Sep.2023	Nov2023		
SAMPLE INFORM	ATION	method				history2
Sample Number		Client Info		GFL0102301	GFL0071621	
Sample Date		Client Info		17 Nov 2023	15 Sep 2023	
	hrs	Client Info		0	0	
Oil Age	hrs	Client Info		300	600	
Oil Changed		Client Info		Not Changd	Changed	
Sample Status				NORMAL	ABNORMAL	
CONTAMINATIO	NC	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	16	56	
	ppm	ASTM D5185m	>20	<1	1	
	ppm	ASTM D5185m	>5	2	1	
	ppm	ASTM D5185m		0	0	
	ppm	ASTM D5185m	>2	<1	0	
	ppm	ASTM D5185m		6	<u>^</u> 23	
	ppm	ASTM D5185m	>40	0	2	
	ppm	ASTM D5185m		3	22	
		ASTM D5185m		<1	2	
	ppm	ASTM D5185m	>10	<1	0	
	ppm	ASTM D5185m		0	0	
	ppm		11 1.0			
ADDITIVES		method	limit/base	current	history1	history2
	ppm		0	6	4	
	ppm	ASTM D5185m		0	<1	
	ppm	ASTM D5185m	60	51	57	
Manganese	ppm	ASTM D5185m	0	2	15	
Magnesium	ppm	ASTM D5185m	1010	564	763	
Calcium	ppm	ASTM D5185m	1070	1495	1154	
Phosphorus	ppm	ASTM D5185m	1150	712	721	
Zinc	ppm	ASTM D5185m	1270	958	951	
Sulfur	ppm	ASTM D5185m	2060	2461	2520	
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	8	<b>▲</b> 41	
Sodium	ppm	ASTM D5185m		8	5	
Potassium	ppm	ASTM D5185m	>20	12	57	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0	0.1	
Nitration	Abs/cm	*ASTM D7624	>20	11.7	11.9	
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.6	23.4	
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.8	21.8	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	4.3	<b>▲</b> 3.4	
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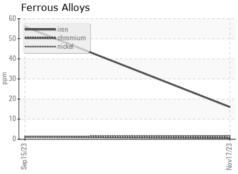
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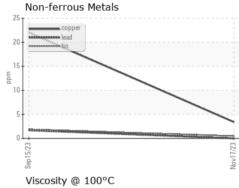


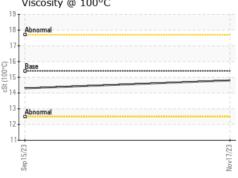
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	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	
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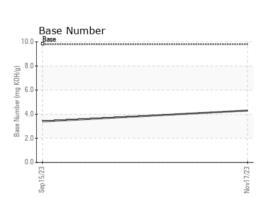
FLUID PROPE	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.8	14.3	

## **GRAPHS**













Certificate L2367

Laboratory Sample No. Lab Number

Unique Number : 10751332 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0102301 : 06012188

Received Diagnosed Diagnostician : Don Baldridge

: 20 Nov 2023 : 21 Nov 2023 GFL Environmental - 035 - Greensboro 1236 Elon Place High Point, NC

US 27263 Contact: JORGE COSTA jorge.costa@gflenv.com T: (336)668-3712

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)