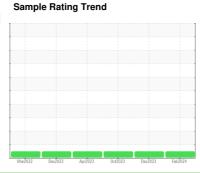


# **OIL ANALYSIS REPORT**

(V99117) 229032-630254

**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

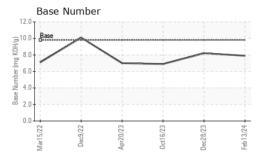
### **Fluid Condition**

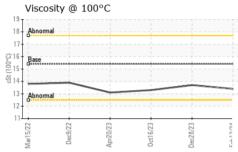
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

/		Mar2022	Dec2022 Apr2023	Oct2023 Dec2023	Feb 2024	
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0101986	GFL0101959	GFL0078376
Sample Date		Client Info		13 Feb 2024	28 Dec 2023	16 Oct 2023
	hrs	Client Info		11761	11672	11554
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATIO	NC	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
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	18	7
Chromium	ppm	ASTM D5185m	>20	<1	0	<1
	ppm	ASTM D5185m	>4	0	0	<1
	ppm	ASTM D5185m		<1	<1	<1
	ppm	ASTM D5185m	>3	<1	<1	0
	ppm	ASTM D5185m	>20	2	2	2
	ppm	ASTM D5185m	>40	0	0	<1
-	ppm	ASTM D5185m		1	<1	1
	ppm		>15	<1	1	<1
	ppm	ASTM D5185m		0	0	0
	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	3	4	2
	ppm	ASTM D5185m	0	0	0	0
	ppm	ASTM D5185m	60	57	60	60
	ppm	ASTM D5185m		<1	<1	0
	ppm	ASTM D5185m	1010	974	1031	897
	ppm		1070	1051	1131	1039
	ppm	ASTM D5185m	1150	1049	1122	981
	ppm	ASTM D5185m	1270	1267	1305	1197
	ppm	ASTM D5185m	2060	3205	3624	3080
CONTAMINANT		method	limit/base	current	history1	history2
	ppm	ASTM D5185m	>25	4	5	5
	ppm	ASTM D5185m		<1	1	<1
	ppm	ASTM D5185m	>20	<1	<1	2
INFRA-RED		method	limit/base	current	history1	history2
	%	*ASTM D7844	>3	0.2	0.2	0.3
	Abs/cm	*ASTM D7624	>20	7.5	6.5	8.9
	Abs/.1mm	*ASTM D7415		19.1	18.3	19.2
FLUID DEGRADA		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.3	15.3	17.8
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.9	8.2	6.9



## **OIL ANALYSIS REPORT**

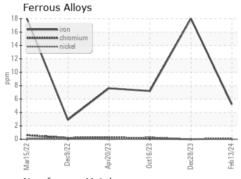


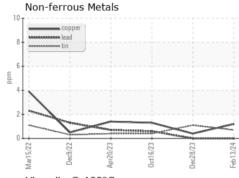


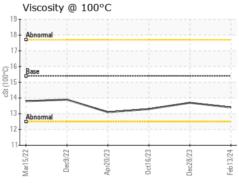
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

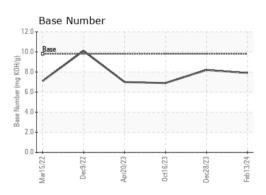
FLUID PROPE	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.4	13.7	13.3

### **GRAPHS**













Certificate L2367

Laboratory Sample No.

Test Package : FLEET

Lab Number : 06089297 Unique Number : 10876742

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0101986 Received : 14 Feb 2024

**Tested** : 15 Feb 2024 Diagnosed : 15 Feb 2024 - Wes Davis

GFL Environmental - 892 - Pauls Valley Hauling

405 East Airport Industrial Road Pauls Valley, OK US 73075

Contact: Tony Graham tgraham2@wcamerica.com

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)

T:

F: