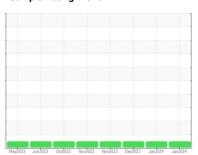


## **OIL ANALYSIS REPORT**

## Sample Rating Trend







# Machine Id **913152** 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

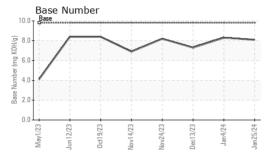
## **Fluid Condition**

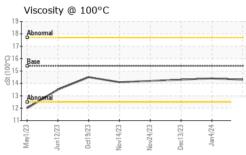
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

N SHP 15W40 (	- GAL)	May2023 、	un2023 Oct2023 Nov202	23 Nov2023 Dec2023 Jan2024	Jan 2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0107965	GFL0107948	GFL0102566
Sample Date		Client Info		25 Jan 2024	04 Jan 2024	13 Dec 2023
Machine Age	hrs	Client Info		2317	2180	2048
Oil Age	hrs	Client Info		0	0	600
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>120	4	2	6
Chromium	ppm	ASTM D5185m	>20	<1	<1	0
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m	>2	<1	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	3	3	8
_ead	ppm	ASTM D5185m	>40	0	<1	<1
Copper	ppm	ASTM D5185m	>330	<1	<1	<1
Tin	ppm	ASTM D5185m	>15	<1	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<1	2	2
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	59	57	56
Manganese	ppm	ASTM D5185m	0	0	0	0
Magnesium	ppm	ASTM D5185m	1010	922	953	1070
Calcium	ppm	ASTM D5185m	1070	1067	1045	1183
Phosphorus	ppm	ASTM D5185m	1150	904	1095	1116
Zinc	ppm		1270	1213	1221	1284
Sulfur	ppm	ASTM D5185m	2060	3206	3180	3165
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	2	3	4
Sodium	ppm	ASTM D5185m		0	<1	0
Potassium	ppm	ASTM D5185m	>20	9	4	19
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.2	0.1	0.3
Vitration	Abs/cm	*ASTM D7624	>20	7.1	6.1	8.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.1	17.6	19.3
Juliation						
FLUID DEGRAD	OATION	method	limit/base	current	history1	history2
	DATION Abs/.1mm	method *ASTM D7414	limit/base	current	history1	history2 15.8



## **OIL ANALYSIS REPORT**

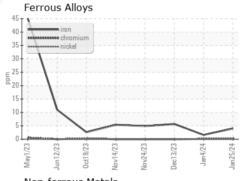




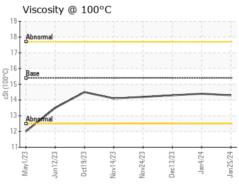
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

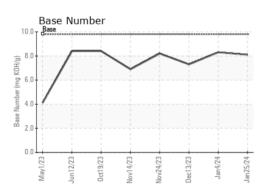
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.3	14.4	14.3

## **GRAPHS**



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Certificate L2367

Laboratory Sample No.

Lab Number Unique Number : 10855894 Test Package : FLEET

: GFL0107965 : 06073803

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 30 Jan 2024 Diagnosed : 31 Jan 2024

Diagnostician : 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)

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