

# **OIL ANALYSIS REPORT**



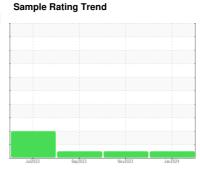
(YA171066) Machine Id 713009

Component

Diesel Engine

Fluid

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





## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil

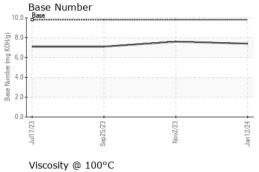
## **Fluid Condition**

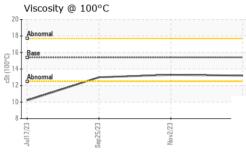
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

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SAMPLE INFORM	MATION	method				history2
Sample Number		Client Info		GFL0068108	GFL0068127	GFL0068141
Sample Date		Client Info		12 Jan 2024	02 Nov 2023	25 Sep 2023
Machine Age	hrs	Client Info		2396	1860	1307
Oil Age	hrs	Client Info		600	600	600
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATI	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method		NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS	2	method	limit/base	current	history1	history2
					,	
Iron	ppm	ASTM D5185m	>120	13	6	10
Chromium	ppm	ASTM D5185m		<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	<1	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	1
Aluminum	ppm	ASTM D5185m	>20	2	3	8
Lead	ppm	ASTM D5185m	>40	0	<1	0
Copper	ppm	ASTM D5185m	>330	3	11	75
Tin	ppm	ASTM D5185m	>15	2	<1	1
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	5	5	10
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	58	61	65
Manganese	ppm	ASTM D5185m	0	<1	<1	1
Magnesium	ppm	ASTM D5185m	1010	980	954	983
Calcium	ppm	ASTM D5185m	1070	1116	1083	1168
Phosphorus	ppm	ASTM D5185m	1150	972	989	1084
Zinc	ppm	ASTM D5185m	1270	1251	1230	1371
Sulfur	ppm	ASTM D5185m	2060	2910	2857	3040
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	4	9
Sodium	ppm	ASTM D5185m		9	3	3
Potassium	ppm	ASTM D5185m	>20	5	11	14
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.3	0.2	0.3
Nitration	Abs/cm	*ASTM D7624	>20	7.8	7.3	7.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.8	19.1	19.0
FLUID DEGRADATION method limit/base current history1 history2						
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.8	15.1	15.1
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.4	7.6	7.1
(=)	0 - 3					



# **OIL ANALYSIS REPORT**

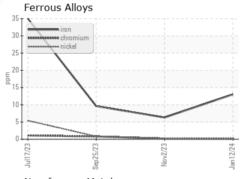


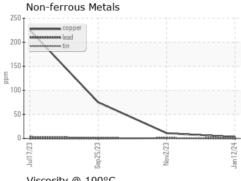


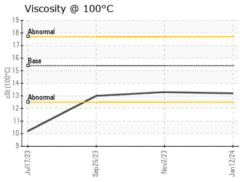
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

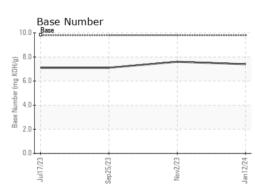
FLUID PROPE	KIIES	metnoa	ilmit/base	current	nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	15.4	13.2	13.3	13.0

## **GRAPHS**













Certificate L2367

Laboratory

Sample No. Lab Number Unique Number : 10846631 Test Package : FLEET

: GFL0068108 : 06069954

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 24 Jan 2024 Diagnosed : 25 Jan 2024

Diagnostician : Wes Davis

GFL Environmental - 028 - Weldon

2211 US Highway 301 Halifax, NC US 27839

Contact: TRAVIS PORCH tporch@gflenv.com T: (252)532-3344

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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.