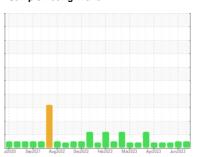


# **OIL ANALYSIS REPORT**

## Sample Rating Trend



NORMAL



# Machine Id **725004**

Component **Diesel Engine** 

PETRO CANADA DURON SHP 15W40 (12 QTS)

## 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.

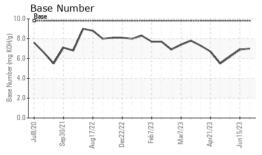
## **Fluid Condition**

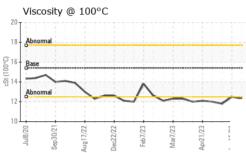
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Q13)		ul2020 Sep.	021 Aug2022 Dec2022	Feb2023 Mar2023 Apr2023	Jun2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0086125	GFL0083215	GFL0082903
Sample Date		Client Info		10 Jul 2023	15 Jun 2023	10 May 2023
Machine Age	hrs	Client Info		9136	8956	8664
Oil Age	hrs	Client Info		911	731	439
Oil Changed	0	Client Info		Not Changd	Not Changd	Changed
Sample Status				NORMAL	NORMAL	ATTENTION
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	24	17	26
Chromium	ppm	ASTM D5185m	>20	<1	<1	1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m	>2	<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	1	2	2
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm		>330	<1	0	<1
Tin	ppm	ASTM D5185m	>15	0	<1	1
Vanadium	ppm	ASTM D5185m	7.0	<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	9	13	18
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	63	62	62
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	830	842	742
Calcium	ppm	ASTM D5185m	1070	1150	1133	1083
Phosphorus	ppm	ASTM D5185m	1150	955	973	904
Zinc	ppm	ASTM D5185m	1270	1160	1206	1124
Sulfur	ppm	ASTM D5185m	2060	3233	3430	3115
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	5	7
Sodium	ppm	ASTM D5185m		8	6	6
Potassium	ppm	ASTM D5185m	>20	<1	<1	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.5	0.4	0.6
Nitration	Abs/cm	*ASTM D7624	>20	9.6	8.2	9.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.3	19.1	20.1
FLUID DEGRA	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.3	15.6	15.8
Base Number (BN)	mg KOH/g		9.8	7.0	6.9	6.2
(214)						



## **OIL ANALYSIS REPORT**

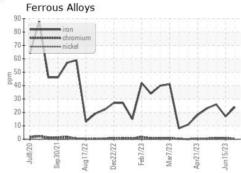


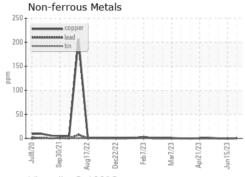


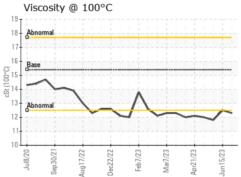
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

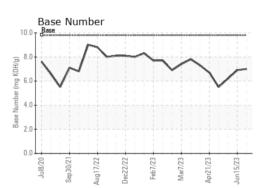
FLUID PROPI	ERITES	method	ilmivbase		nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	15.4	12.3	12.5	<b>▲</b> 11.8

## **GRAPHS**













Certificate L2367

Laboratory Sample No.

Lab Number Unique Number : 10563397 Test Package : FLEET

: GFL0086125 : 05902041

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 19 Jul 2023 Diagnosed : 20 Jul 2023

Diagnostician : Wes Davis

GFL Environmental - 010 - Stockbridge 1280 Rum Creek Parkway

Stockbridge, GA US 30281

Contact: JOSHUA TINKER joshuatinker@gflenv.com

> T: F:

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)