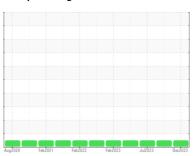


# **OIL ANALYSIS REPORT**

## Sample Rating Trend







Machine Id **525015-7015** 

Component

**Diesel Engine** 

PETRO CANADA DURON SHP 10W30 (--- LTR)

## 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

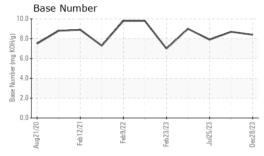
## **Fluid Condition**

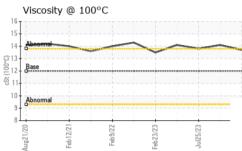
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

LTR)		Aug2020	Feb2021 Feb2022	Feb2023 Jul2023	Dec2023		
SAMPLE INFORM	/ATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0101343	GFL0091790	GFL0086611	
Sample Date		Client Info		28 Dec 2023	13 Oct 2023	25 Jul 2023	
Machine Age	hrs	Client Info		16031	15650	15149	
Oil Age	hrs	Client Info		0	0	0	
Oil Changed		Client Info		Not Changd	Not Changd	Changed	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINATI	ON	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	S	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>110	2	6	11	
Chromium	ppm	ASTM D5185m	>4	1	1	<1	
Nickel	ppm	ASTM D5185m	>2	0	0	0	
Titanium	ppm	ASTM D5185m		0	0	0	
Silver	ppm	ASTM D5185m	>2	0	0	0	
Aluminum	ppm	ASTM D5185m	>25	2	1	3	
Lead	ppm	ASTM D5185m	>45	0	0	0	
Copper	ppm	ASTM D5185m		0	<1	2	
Tin	ppm	ASTM D5185m	>4	0	0	<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	2	0	2	5	
Barium	ppm	ASTM D5185m		4	0	2	
Molybdenum	ppm	ASTM D5185m	50	59	56	64	
Manganese	ppm	ASTM D5185m		0	0	<1	
Magnesium	ppm	ASTM D5185m	950	925	863	1071	
Calcium	ppm	ASTM D5185m	1050	1056	972	1222	
Phosphorus Zinc	ppm	ASTM D5185m	995	1037	935	1125	
Sulfur	ppm	ASTM D5185m ASTM D5185m	1180 2600	1203 3342	1111 2893	1397 3949	
CONTAMINAN		method	limit/base			history2	
		ASTM D5185m	>30	current	history1 4	4	
Silicon Sodium	ppm	ASTM D5185m	>30	0	0	1	
Potassium	ppm	ASTM D5185m	>20	0	1	1	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.7	0.2	0.4	
Nitration	Abs/cm	*ASTM D7624	>20	8.6	6.4	8.5	
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.0	17.7	19.3	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.8	13.7	15.6	
Base Number (BN)	mg KOH/g	ASTM D2896	720	8.4	8.7	7.9	
Dago (Variabol (DIV)	ing itoring	7.0 TW D2000		0.7	0.7	7.0	



# **OIL ANALYSIS REPORT**

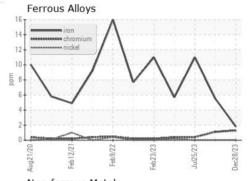


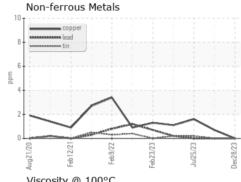


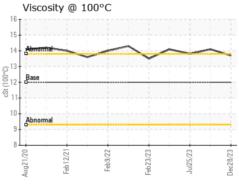
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

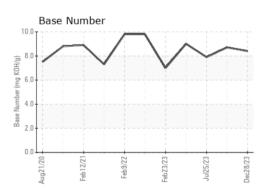
FLUID PROPE	RHES	method				history2
Visc @ 100°C	cSt	ASTM D445	12.00	13.7	14.1	13.8

## **GRAPHS**













Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** Test Package : FLEET

: GFL0101343 : 06048575 : 10809183

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 02 Jan 2024 Diagnosed : 03 Jan 2024

Diagnostician : Wes Davis GFL Environmental - 654 - Richmond Hauling

11800 Lewis Road Chester, VA US 23831 Contact: Jimmy Mayes

jmayes@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)