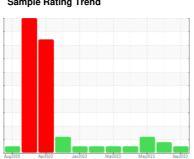


# **OIL ANALYSIS REPORT**

Sample Rating Trend



NORMAL



Machine Id **828018-1064** 

Component

**Diesel Engine** 

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

# 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

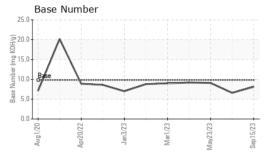
## **Fluid Condition**

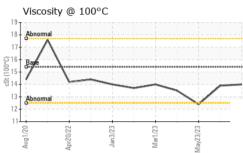
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

LTR)		Aug2020	Apr2022 Jan2023	Mar2023 May2023	Sep 2023	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0089555	GFL0089552	GFL0067885
Sample Date		Client Info		15 Sep 2023	12 Sep 2023	23 May 2023
Machine Age	hrs	Client Info		13826	11131	13826
Oil Age	hrs	Client Info		9294	497	9294
Oil Changed		Client Info		N/A	Not Changd	N/A
Sample Status				NORMAL	MARGINAL	ABNORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	3.2	<b>△</b> 6.5
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	59	61	61
Chromium	ppm	ASTM D5185m		2	2	3
Nickel	ppm	ASTM D5185m	>4	<1	<1	<1
Titanium	ppm	ASTM D5185m		<1	<1	2
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m		5	8	4
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m		4	5	4
Tin	ppm	ASTM D5185m	>15	0	<1	<1
Vanadium	ppm	ASTM D5185m	710	0	<1	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES	la la	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	6	4	5
Barium	ppm	ASTM D5185m	0	<1	0	0
Molybdenum	ppm	ASTM D5185m	60	67	66	58
Manganese	ppm	ASTM D5185m	0	1	<1	1
Magnesium	ppm	ASTM D5185m	1010	1031	1098	953
Calcium	ppm	ASTM D5185m	1070	1166	1231	1028
Phosphorus	ppm	ASTM D5185m	1150	1108	1096	1002
Zinc	ppm	ASTM D5185m	1270	1351	1403	1225
Sulfur	ppm	ASTM D5185m	2060	3549	3716	3372
CONTAMINAN		method	limit/base	current	history1	history2
Silicon		ASTM D5185m		14	17	15
Sodium	ppm	ASTM D5185m	>25	9	9	7
Potassium	ppm	ASTM D5185m	>20	23	25	13
INFRA-RED	ррпп	method	limit/base	current	history1	history2
	0/				· ·	,
Soot %	% Ala a /a	*ASTM D7844	>3	0.5	1.2	0.3
Nitration	Abs/cm	*ASTM D7624	>20	11.6	11.0	7.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.4	22.2	18.4
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.5	18.2	14.2
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.1	6.6	9.1



# **OIL ANALYSIS REPORT**

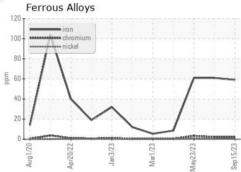


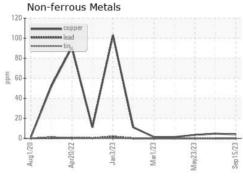


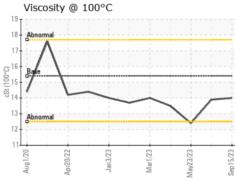
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

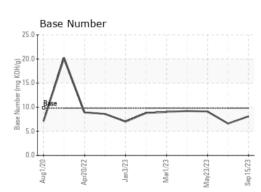
FLUID PROPE	RTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.0	13.9	<u> </u>

## **GRAPHS**













Certificate L2367

Laboratory Sample No. Lab Number Test Package : FLEET

Unique Number : 10655915

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0089555 : 05954702

Received Diagnosed Diagnostician : Wes Davis

: 18 Sep 2023 : 20 Sep 2023 GFL Environmental - 654S - Midlothian

12230 Deergrove Road Midlothian, VA US 23112

Contact: Corbin Umphlet

cumphlet@gflenv.com T:

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.

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