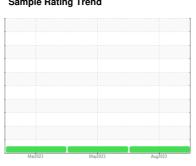


# **OIL ANALYSIS REPORT**

Sample Rating Trend



NORMAL



Machine Id **427193 - SW4742** 

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

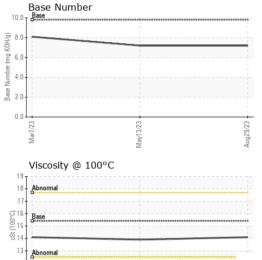
## **Fluid Condition**

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

GAL)		Ma	r2023	May2023 Aug20	23	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0089454	GFL0075402	GFL0075351
Sample Date		Client Info		29 Aug 2023	13 May 2023	07 Mar 2023
Machine Age	mls	Client Info		311407	296568	286781
Oil Age	mls	Client Info		311407	296568	0
Oil Changed		Client Info		Changed	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<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	>100	12	15	6
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	<1	<1
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	0	<1	0
Aluminum	ppm	ASTM D5185m		<1	1	1
Lead	ppm	ASTM D5185m	>40	2	3	2
Copper	ppm	ASTM D5185m		0	0	<1
Tin	ppm	ASTM D5185m		0	1	<1
Vanadium	ppm	ASTM D5185m	>10	0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	1	<1
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	46	44	49
Manganese	ppm		0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	9	33	107
Calcium	ppm	ASTM D5185m	1070	2492	2750	2686
Phosphorus	ppm	ASTM D5185m	1150	1076	1156	1129
Zinc	ppm	ASTM D5185m	1270	1305	1398	1362
Sulfur	ppm	ASTM D5185m	2060	3765	4107	4011
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	9	6
Sodium	ppm	ASTM D5185m		0	3	3
Potassium	ppm	ASTM D5185m	>20	1	1	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	0.3	0.3
Nitration	Abs/cm	*ASTM D7624	>20	6.8	8.4	8.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	16.6	19.4	18.8
FLUID DEGRAI	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	9.0	9.9	9.8
Base Number (BN)	mg KOH/g	ASTM D2896		7.2	7.2	8.1
(211)						



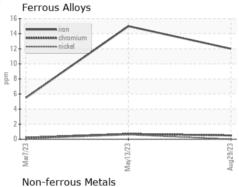
# **OIL ANALYSIS REPORT**

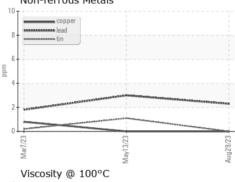


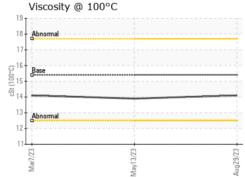
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

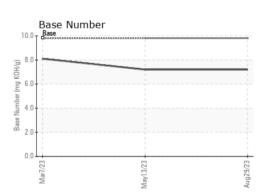
FLUID PROPE	EKIIES	method	ilmit/base		nistory i	nistoryz
Visc @ 100°C	cSt	ASTM D445	15.4	14.1	13.9	14.1

## **GRAPHS**













Certificate L2367

Laboratory Sample No. Lab Number

Unique Number : 10633944 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0089454 : 05943332

Received Diagnosed

: 06 Sep 2023 : 08 Sep 2023 Diagnostician : Don Baldridge GFL Environmental - 983 - Sugar Land Hauling 16011 West Belfort Street Sugar Land, TX

US 77498 Contact: Gino Griego ggriego@gflenv.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)

T:

F: