

# **OIL ANALYSIS REPORT**

Sample Rating Trend





Machine Id **426143 - SW4621** 

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

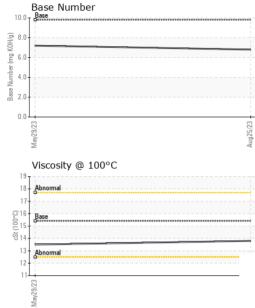
## **Fluid Condition**

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

GAL)			May2023	Aug2023		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0089465	GFL0075361	
Sample Date		Client Info		25 Aug 2023	29 May 2023	
Machine Age	mls	Client Info		445086	270559	
Oil Age	mls	Client Info		445086	0	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	
Glycol		WC Method		NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	12	37	
Chromium	ppm	ASTM D5185m	>20	<1	1	
Nickel		ASTM D5185m	>4	0	1	
Titanium	ppm	ASTM D5185m	77	0	0	
Silver		ASTM D5185m	>3	0	<1	
Aluminum	ppm	ASTM D5185m	>20	0	4	
Lead		ASTM D5185m	>40	0	2	
	ppm		>330	3	1	
Copper Tin	ppm	ASTM D5185m		0		
Vanadium	ppm	ASTM D5185m ASTM D5185m	>15		<1	
Cadmium	ppm	ASTM D5185m		0	<1	
	ppm		12 24 //			
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	2	
Barium	ppm	ASTM D5185m	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	40	56	
Manganese	ppm	ASTM D5185m	0	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	73	696	
Calcium	ppm	ASTM D5185m	1070	2283	1568	
Phosphorus	ppm	ASTM D5185m	1150	998	1092	
Zinc	ppm	ASTM D5185m	1270	1199	1362	
Sulfur	ppm	ASTM D5185m	2060	3602	3386	
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	9	13	
Sodium	ppm	ASTM D5185m		0	2	
Potassium	ppm	ASTM D5185m	>20	0	4	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	1.3	
Nitration	Abs/cm	*ASTM D7624	>20	9.4	15.0	
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.9	26.9	
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.0	22.0	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	6.8	7.2	



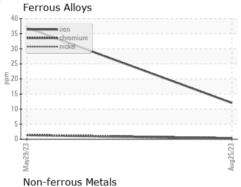
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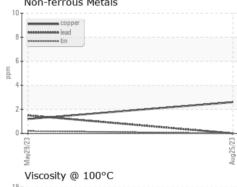


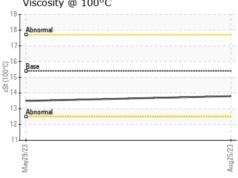
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance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

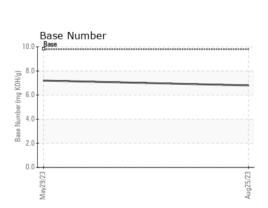
FLUID PROPI	ERTIES	method			history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.8	13.5	

## **GRAPHS**











Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10630683 Test Package : FLEET

: GFL0089465 : 05940071

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

Received : 31 Aug 2023 Diagnosed : 05 Sep 2023 Diagnostician : Sean Felton

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)

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