

# **OIL ANALYSIS REPORT**

### Sample Rating Trend





Machine Id **929039** 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

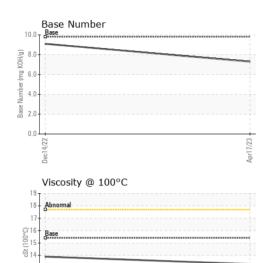
## **Fluid Condition**

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

N SHP 15W40 (-	GAL)		Dec2022	Apr2023		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0071258	GFL0065045	
Sample Date		Client Info		17 Apr 2023	14 Dec 2022	
Machine Age	hrs	Client Info		26977	26370	
Oil Age	hrs	Client Info		26977	26370	
Oil Changed		Client Info		Not Changd	Not Changd	
Sample Status				NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
-uel		WC Method	>5	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METAL	.S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>120	9	4	
Chromium	ppm	ASTM D5185m	>20	0	<1	
Nickel	ppm	ASTM D5185m	>5	0	<1	
Γitanium	ppm	ASTM D5185m	>2	0	0	
Silver	ppm	ASTM D5185m	>2	0	0	
Aluminum	ppm	ASTM D5185m	>20	4	1	
_ead	ppm	ASTM D5185m	>40	0	<1	
Copper	ppm	ASTM D5185m	>330	<1	<1	
Γin	ppm	ASTM D5185m	>15	<1	<1	
/anadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	4	
Barium	ppm	ASTM D5185m	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	59	58	
Manganese	ppm	ASTM D5185m	0	0	<1	
Magnesium	ppm	ASTM D5185m	1010	957	930	
Calcium	ppm	ASTM D5185m	1070	1063	1058	
Phosphorus	ppm	ASTM D5185m	1150	976	993	
Zinc	ppm	ASTM D5185m	1270	1204	1232	
Sulfur	ppm	ASTM D5185m	2060	3186	3490	
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	4	
Sodium	ppm	ASTM D5185m		4	2	
Potassium	ppm	ASTM D5185m	>20	0	0	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.3	0.2	
Nitration	Abs/cm	*ASTM D7624	>20	10.2	5.8	
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.2	17.8	
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
	DATION Abs/.1mm	method *ASTM D7414	limit/base	current 17.9	history1 13.7	history2



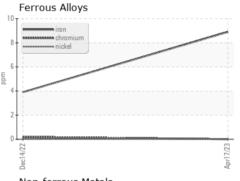
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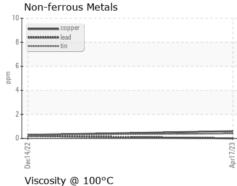


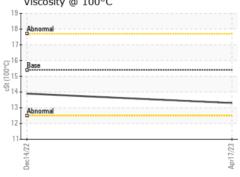
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance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

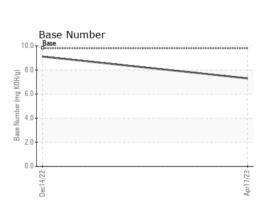
FLUID PROPI	ERHES	method			history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.3	13.9	

## **GRAPHS**













Certificate L2367

Laboratory Sample No.

Test Package : FLEET

: GFL0071258 Lab Number : 05849400 Unique Number : 10473507

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

: 17 May 2023 : 18 May 2023 Diagnosed : 18 May 2023 - Wes Davis

GFL Environmental - 932 - Muskego HC

W144 S6400 College Ct. Muskego, WI US 53150

Contact: Brian Schlomann brian.schlomann@gflenv.com T: (262)510-4586

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)