

# **OIL ANALYSIS REPORT**

### Sample Rating Trend







Machine Id
720046
Component
Diesel Engine
Fluid

PETRO CANADA DURON SHP 15W40 (--- GAL

## 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.

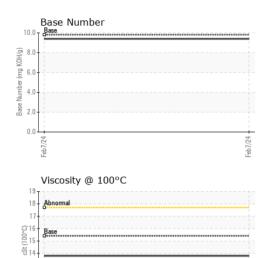
ON SHP 15W40 (	CALV					
ON SHP 15W40 (-	- GAL)			Feb 2024		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0082376		
Sample Date		Client Info		07 Feb 2024		
Machine Age	hrs	Client Info		66002		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		Not Changd		
Sample Status				NORMAL		
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0		
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	24		
Chromium	ppm	ASTM D5185m	>20	0		
Nickel	ppm	ASTM D5185m	>5	0		
Titanium	ppm	ASTM D5185m	>2	<1		
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm	ASTM D5185m	>20	3		
Lead	ppm	ASTM D5185m	>40	<1		
Copper	ppm	ASTM D5185m	>330	2		
Tin	ppm	ASTM D5185m	>15	<1		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	93		
Barium	ppm	ASTM D5185m	0	0		
Molybdenum	ppm	ASTM D5185m	60	65		
Manganese	ppm	ASTM D5185m	0	<1		
Magnesium	nnm	ACTM DE195m	1010	770		

Cadmium	ppm	ASTIVI DST85III		U		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	93		
Barium	ppm	ASTM D5185m	0	0		
Molybdenum	ppm	ASTM D5185m	60	65		
Manganese	ppm	ASTM D5185m	0	<1		
Magnesium	ppm	ASTM D5185m	1010	779		
Calcium	ppm	ASTM D5185m	1070	1039		
Phosphorus	ppm	ASTM D5185m	1150	918		
Zinc	ppm	ASTM D5185m	1270	1079		
Sulfur	ppm	ASTM D5185m	2060	2901		
CONTAMINAN	TS	method	limit/base	current	history1	history2
CONTAMINAN Silicon	TS ppm	method ASTM D5185m	limit/base >25	current 7	history1	history2
					,	,
Silicon	ppm	ASTM D5185m		7		
Silicon Sodium	ppm ppm	ASTM D5185m ASTM D5185m	>25	7 4		
Silicon Sodium Potassium	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	>25	7 4 0		
Silicon Sodium Potassium INFRA-RED	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method	>25 >20 limit/base	7 4 0 current	history1	history2
Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844	>25 >20  limit/base >4	7 4 0 current	history1	history2
Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624 *ASTM D7415	>25 >20 limit/base >4 >20	7 4 0 current 0.1 4.9	  history1	history2

Base Number (BN) mg KOH/g ASTM D2896 9.8



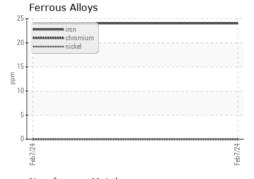
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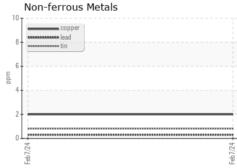


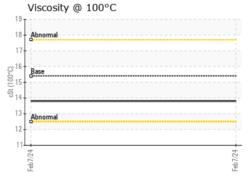
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Precipitate	scalar	*Visual	NONE	NONE		
Silt	scalar	*Visual	NONE	NONE		
Debris	scalar	*Visual	NONE	NONE		
Sand/Dirt	scalar	*Visual	NONE	NONE		
Appearance	scalar	*Visual	NORML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

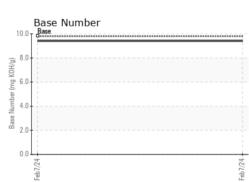
FLUID FROF	EULIES	memou			HISTOLAL	HISTORYZ
Visc @ 100°C	cSt	ASTM D445	15.4	13.8		

### **GRAPHS**













Certificate L2367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0082376

Lab Number : 06083275 Unique Number : 10870720 Test Package : FLEET

Received **Tested** Diagnosed

: 08 Feb 2024 : 08 Feb 2024

: 08 Feb 2024 - Wes Davis

GFL Environmental - 959F - Clinton HC

9550 Heritage Rd Clinton, IL US 61727

Contact: Larry Siegmann lsiegmann@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)

Report Id: GFL959F [WUSCAR] 06083275 (Generated: 02/09/2024 19:21:22) Rev: 1

Contact/Location: Also GFL959,959C,959D - Larry Siegmann - GFL959F

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