

# **OIL ANALYSIS REPORT**

## Sample Rating Trend

# NORMAL



713051 Component **Diesel Engine** 

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

# DIAGNOSIS

## Recommendation

Resample at the next service interval to monitor.

Metal levels are typical for a new component breaking in.

## Contamination

There is no indication of any contamination in the

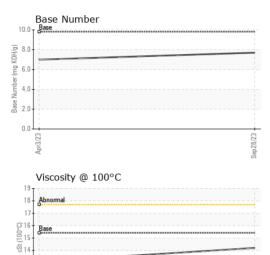
## **Fluid Condition**

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)		Apr2023	Sep2023		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0084544	GFL0078794	
Sample Date		Client Info		28 Sep 2023	03 Apr 2023	
Machine Age	hrs	Client Info		1667	596	
Oil Age	hrs	Client Info		596	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
ron	ppm	ASTM D5185m	>80	9	32	
Chromium	ppm	ASTM D5185m	>5	<1	<1	
Nickel	ppm	ASTM D5185m	>2	<1	0	
Titanium	ppm	ASTM D5185m	_	0	0	
Silver	ppm	ASTM D5185m	>3	0	0	
Aluminum	ppm	ASTM D5185m	>30	0	5	
Lead	ppm	ASTM D5185m	>30	<1	0	
Copper	ppm	ASTM D5185m		<1	13	
Tin	ppm	ASTM D5185m	>5	<1	0	
Vanadium	ppm	ASTM D5185m	/5	0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES	1-1-	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	42	
Barium	ppm		0	2	5	
Molybdenum	ppm	ASTM D5185m	60	- 58	42	
Vanganese	ppm	ASTM D5185m		<1	5	
Magnesium	ppm	ASTM D5185m	1010	824	567	
Calcium	ppm	ASTM D5185m	1070	995	1490	
Phosphorus	ppm	ASTM D5185m	1150	952	704	
Zinc	ppm	ASTM D5185m	1270	1085	881	
Sulfur	ppm	ASTM D5185m	2060	2681	2335	
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	3	16	
Sodium	ppm	ASTM D5185m		<1	4	
Potassium	ppm	ASTM D5185m	>20	3	8	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0.3	
Nitration	Abs/cm	*ASTM D7624		8.8	10.0	
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.5	20.2	
FLUID DEGRAI	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	10.0	22.0	
		401M D1414		10.2	22.0	
Base Number (BN)	mg KOH/g	ASTM D2896		16.2 7.7	22.0 7.0	



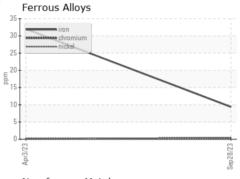
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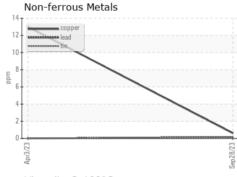


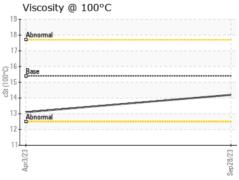
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	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 DDODE	DTIEO		11 11 11		111	1:

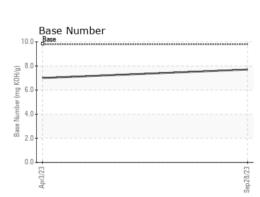
FLUID PROPI	ERIIES	metnoa	ilmit/base	current	nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	15.4	14.2	13.1	

## **GRAPHS**













Certificate L2367

Laboratory Sample No.

Lab Number Unique Number : 10696782 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0084544 : 05979487

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Received Diagnosed

: 16 Oct 2023 : 17 Oct 2023 Diagnostician : Wes Davis

GFL Environmental - 918 - Hartland HC 630 E Industrial Drive

Hartland, WI US 53029 Contact: Matthew Taylor

matthew.taylor@gflenv.com T:

\* - 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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