

# **OIL ANALYSIS REPORT**

## Sample Rating Trend

## NORMAL





Machine Id 912015 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 components first oil change.

### Contamination

There is no indication of any contamination in the

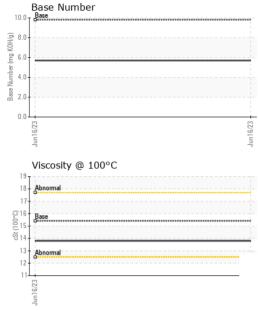
### **Fluid Condition**

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)			Jun2023		
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0084884		
Sample Date		Client Info		16 Jun 2023		
Machine Age	hrs	Client Info		3036		
Oil Age	hrs	Client Info		3036		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINA	ΓΙΟΝ	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0		
Glycol		WC Method		NEG		
WEAR METAI	LS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	31		
Chromium		ASTM D5185m	>20	<1		
Nickel	ppm			2		
	ppm	ASTM D5185m ASTM D5185m	>5 >2	<1		
Titanium	ppm					
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm	ASTM D5185m	>20	2		
_ead	ppm	ASTM D5185m	>40	<1		
Copper	ppm		>330	8		
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	<1		
Barium	ppm	ASTM D5185m	0	0		
Molybdenum	ppm	ASTM D5185m	60	60		
Manganese	ppm	ASTM D5185m	0	<1		
Magnesium	ppm	ASTM D5185m	1010	978		
Calcium	ppm	ASTM D5185m	1070	1129		
Phosphorus	ppm	ASTM D5185m	1150	970		
Zinc	ppm	ASTM D5185m	1270	1262		
Sulfur	ppm	ASTM D5185m	2060	2749		
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4		
Sodium	ppm	ASTM D5185m		5		
Potassium	ppm	ASTM D5185m	>20	4		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.9		
Nitration	Abs/cm	*ASTM D7624	>20	11.0		
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.8		
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.2		
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	5.7		



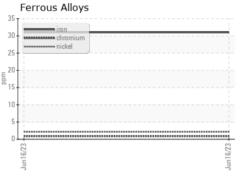
## **OIL ANALYSIS REPORT**



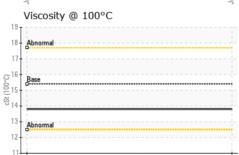
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Precipitate	scalar	*Visual	NONE	NONE		
Silt	scalar	*Visual	NONE	NONE		
Debris	scalar	*Visual	NONE	NONE		
Sand/Dirt	scalar	*Visual	NONE	NONE		
Appearance	scalar	*Visual	NORML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

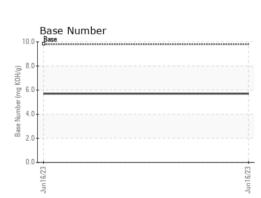
FLUID FROF	LULIES	method			HISTOLAL	HISTOLYZ
Visc @ 100°C	cSt	ASTM D445	15.4	13.8		

### **GRAPHS**



10	Non-ferrous	Metals	
8	copper lead		
6 mdd			
8 4			
2			
0	Jun16/23		Jun16/23 +
		10000	- Lim







Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10552993 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0084884 : 05897183

Received

: 13 Jul 2023 Diagnosed Diagnostician : Wes Davis

: 13 Jul 2023

GFL Environmental - 410 - Michigan West 39000 Van Born Rd

Wayne, MI US 48184 Contact: Belal Dgheish bdgheish@gflenv.com T: (734)714-2340

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)