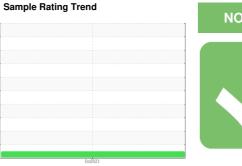


# **OIL ANALYSIS REPORT**

**T** 



NORMAL



Machine Id 429107 Component

**Diesel Engine** 

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

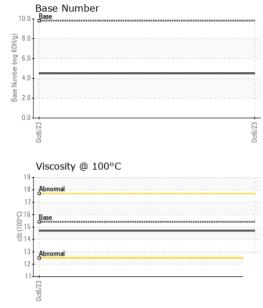
### **Fluid Condition**

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

GAL)				Oct2023		
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0066281		
Sample Date		Client Info		06 Oct 2023		
Machine Age	hrs	Client Info		7239		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINAT	ΓΙΟΝ	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
Glycol		WC Method		NEG		
WEAR METAL	_S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>110	41		
Chromium	ppm	ASTM D5185m		0		
Nickel	ppm	ASTM D5185m	>2	0		
Titanium	ppm	ASTM D5185m	/ <u>L</u>	3		
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm		>25	5		
Lead		ASTM D5185m	>45	0		
Copper	ppm	ASTM D5185m		2		
Tin		ASTM D5185m	>4	0		
Vanadium	ppm	ASTM D5185m	>4	0		
Cadmium	ppm	ASTM D5185m		0		
	ppm		12			la la la ma O
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	8		
Barium	ppm	ASTM D5185m	0	0		
Molybdenum	ppm	ASTM D5185m	60	71		
Manganese	ppm	ASTM D5185m	0	0		
Magnesium	ppm	ASTM D5185m	1010	319		
Calcium	ppm	ASTM D5185m	1070	1778		
Phosphorus	ppm	ASTM D5185m	1150	945		
Zinc	ppm	ASTM D5185m	1270	1168		
Sulfur	ppm	ASTM D5185m	2060	3095		
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	6		
Sodium	ppm	ASTM D5185m		11		
Potassium	ppm	ASTM D5185m	>20	12		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.9		
Nitration	Abs/cm	*ASTM D7624	>20	13.3		
Sulfation	Abs/.1mm	*ASTM D7415	>30	28.7		
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	25.5		
Base Number (BN)	mg KOH/g			4.5		



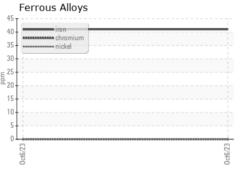
## **OIL ANALYSIS REPORT**

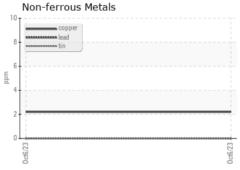


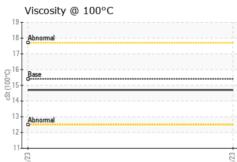
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Precipitate	scalar	*Visual	NONE	NONE		
Silt	scalar	*Visual	NONE	NONE		
Debris	scalar	*Visual	NONE	NONE		
Sand/Dirt	scalar	*Visual	NONE	NONE		
Appearance	scalar	*Visual	NORML	NORML		
Odor	scalar	*Visual	NORML	NORML		
<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG		
Free Water	scalar	*Visual		NEG		
	DTIEO	اء مالم مما	lineit/lenen		hinton d	history O

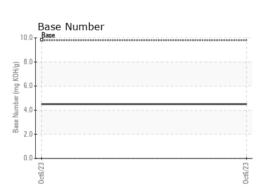
FLUID PROPE	RHES	method	limit/base		history1	nistory2
Visc @ 100°C	cSt	ASTM D445	15.4	14.7		

### **GRAPHS**











Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10727083 Test Package : FLEET

: GFL0066281 : 05998723

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 06 Nov 2023 Diagnosed : 07 Nov 2023 Diagnostician : Don Baldridge

GFL Environmental - 938 - Hager City

W9724 WIS-35 HAGER CITY, WI US 54014

Contact: ANDY KANE

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)