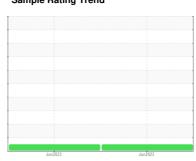


# **OIL ANALYSIS REPORT**

Sample Rating Trend







Machine Id 913051

Component **Diesel Engine** 

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

### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

Metal levels are typical for a new component breaking in.

#### Contamination

There is no indication of any contamination in the oil.

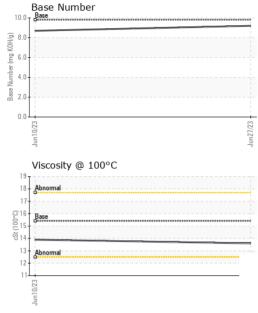
#### **Fluid Condition**

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

QTS)			Jun2023	Jun2023		
SAMPLE INFORI	MATION	method	limit/base	current	history 1	history 2
Sample Number		Client Info		GFL0068748	GFL0068727	
Sample Date		Client Info		27 Jun 2023	10 Jun 2023	
Machine Age	hrs	Client Info		436	310	
Oil Age	hrs	Client Info		436	310	
Oil Changed		Client Info		Not Changd	Not Changd	
Sample Status				NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history 1	history 2
Fuel		WC Method	>3.0	<1.0	<1.0	
Glycol		WC Method		NEG	NEG	
WEAR METAL	S	method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>90	18	16	
Chromium	ppm	ASTM D5185m	>20	<1	<1	
Nickel	ppm	ASTM D5185m	>2	0	0	
Titanium	ppm	ASTM D5185m	>2	<1	0	
Silver	ppm	ASTM D5185m	>2	0	0	
Aluminum	ppm	ASTM D5185m	>20	<1	2	
Lead	ppm	ASTM D5185m	>40	0	0	
Copper	ppm	ASTM D5185m	>330	1	<1	
Tin	ppm	ASTM D5185m	>15	0	0	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m	0	5	8	
Barium	ppm	ASTM D5185m	0	14	0	
Molybdenum	ppm	ASTM D5185m	60	58	64	
Manganese	ppm	ASTM D5185m	0	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	876	966	
Calcium	ppm	ASTM D5185m	1070	995	1029	
Phosphorus	ppm	ASTM D5185m	1150	914	1002	
Zinc	ppm	ASTM D5185m	1270	1149	1215	
Sulfur	ppm	ASTM D5185m	2060	3387	3635	
CONTAMINAN	TS	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>25	3	4	
Sodium	ppm	ASTM D5185m		2	2	
Potassium	ppm	ASTM D5185m	>20	10	4	
INFRA-RED		method	limit/base	current	history 1	history 2
Soot %	%	*ASTM D7844	>6	0.4	0.3	
Nitration	Abs/cm	*ASTM D7624	>20	6.5	5.6	
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.6	18.4	
FLUID DEGRA	DATION	method	limit/base	current	history 1	history 2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.9	14.6	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	9.2	8.7	



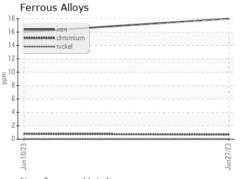
# **OIL ANALYSIS REPORT**

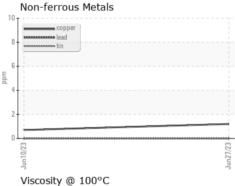


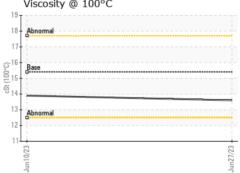
VISUAL		method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	LIGHT	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	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	
	DTIEO	ام مالم میں	line it /le e e e		history d	history O

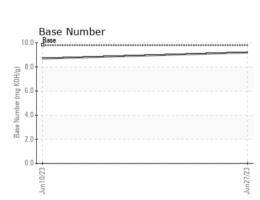
L LOID PROPE	ERITES	memod			flistory i	filstory 2
Visc @ 100°C	cSt	ASTM D445	15.4	13.6	13.9	

### **GRAPHS**











Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10538153

Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0068748 : 05887670

Received : 30 Jun 2023 Diagnosed : 02 Jul 2023 Diagnostician : Wes Davis

GFL Environmental - 073 - Warner Robbins - Transwaste

155 Story Road Warner Robins, GA US 31093

Contact: JOSH MALONEY

jmaloney@gflenv.com

T: F:

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)