

# **OIL ANALYSIS REPORT**

Sample Rating Trend

**NORMAL** 



Machine Id 729050-361419

Diesel Engine

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

## DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the

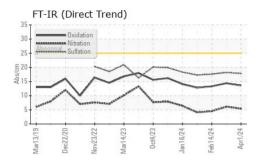
### **Fluid Condition**

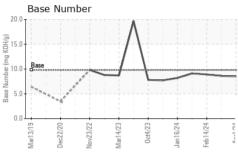
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

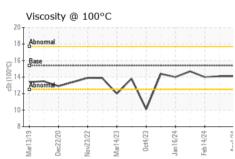
Mar2019							
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0105068	GFL0105243	GFL0105311	
Sample Date		Client Info		01 Apr 2024	06 Mar 2024	14 Feb 2024	
Machine Age	hrs	Client Info		21365	21215	21083	
Oil Age	hrs	Client Info		150	150	300	
Oil Changed		Client Info		Not Changd	Not Changd	Changed	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2	
Fuel		WC Method	>5	<1.0	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	NEG	
Glycol		WC Method		NEG	NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>100	3	9	3	
Chromium	ppm	ASTM D5185m	>20	0	0	0	
Nickel	ppm	ASTM D5185m	>4	0	0	<1	
Titanium	ppm	ASTM D5185m		0	0	0	
Silver	ppm	ASTM D5185m	>3	0	0	0	
Aluminum	ppm	ASTM D5185m	>20	<1	0	2	
Lead	ppm	ASTM D5185m	>40	0	0	1	
Copper	ppm	ASTM D5185m	>330	0	0	1	
Tin	ppm	ASTM D5185m	>15	0	0	<1	
Vanadium	ppm	ASTM D5185m		<1	0	0	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	0	0	5	
Barium	ppm	ASTM D5185m	0	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	59	57	55	
Manganese	ppm	ASTM D5185m	0	0	0	<1	
Magnesium	ppm	ASTM D5185m	1010	967	898	865	
Calcium	ppm	ASTM D5185m	1070	1084	1007	940	
Phosphorus	ppm	ASTM D5185m	1150	1046	924	940	
Zinc	ppm	ASTM D5185m	1270	1286	1115	1166	
Sulfur	ppm	ASTM D5185m	2060	3750	2825	2931	
CONTAMINAN	ITS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	2	2	6	
Sodium	ppm	ASTM D5185m		2	4	7	
Potassium	ppm	ASTM D5185m	>20	0	1	7	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.2	0.3	0.1	
Nitration	Abs/cm	*ASTM D7624	>20	5.4	6.1	4.5	
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.8	18.2	17.6	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.6	14.4	13.3	
Base Number (BN)	mg KOH/g	ASTM D2896		8.5	8.6	8.9	
(=)	39						



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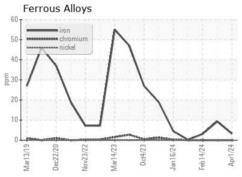


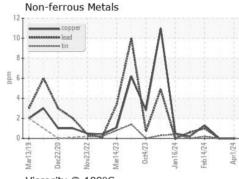


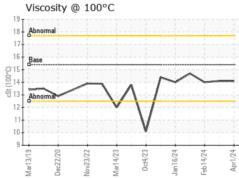
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

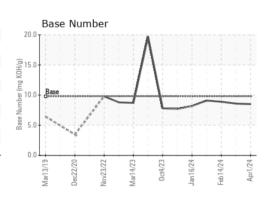
FLUID PROPE	RHES	method	ilmit/base	current	nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	15.4	14.1	14.1	14.0

#### **GRAPHS**













Laboratory Sample No. Lab Number : 06137291 Unique Number: 10956756

: GFL0105068

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

**Tested** Diagnosed

: 03 Apr 2024 : 04 Apr 2024

: 04 Apr 2024 - Wes Davis

GFL Environmental - 821 - Ozarks Hauling

33924 Olath Drive Lebanon, MO US 65536

Contact: Landen Johnson landen.johnson@gflenv.com T: (417)664-0010

Test Package : FLEET Certificate L2367 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)