

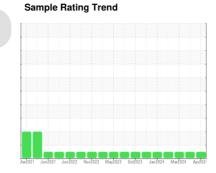
# **OIL ANALYSIS REPORT**



Area (24553UA) 811008 Component

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

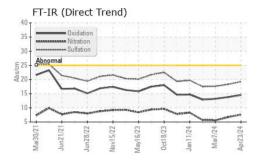
## **Fluid Condition**

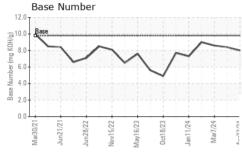
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

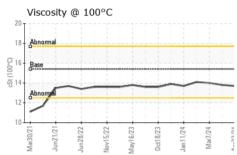
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2		
Sample Number		Client Info		GFL0116621	GFL0111883	GFL0111860		
Sample Date		Client Info		23 Apr 2024	29 Mar 2024	07 Mar 2024		
Machine Age	hrs	Client Info		8550	8376	8231		
Oil Age	hrs	Client Info		8550	8213	163		
Oil Changed		Client Info		Changed	Not Changd	Not Changd		
Sample Status				NORMAL	NORMAL	NORMAL		
CONTAMINAT	ION	method	limit/base	current	history1	history2		
Fuel		WC Method	>3.0	<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	>120	8	7	8		
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1		
Nickel	ppm	ASTM D5185m	>5	4	5	3		
Titanium	ppm	ASTM D5185m	>2	0	0	<1		
Silver	ppm	ASTM D5185m	>2	0	0	<1		
Aluminum	ppm	ASTM D5185m	>20	2	2	2		
Lead	ppm	ASTM D5185m	>40	0	<1	<1		
Copper	ppm		>330	1	<1	1		
Tin	ppm	ASTM D5185m	>15	0	1	<1		
Vanadium	ppm	ASTM D5185m		0	<1	<1		
Cadmium	ppm	ASTM D5185m		0	0	<1		
ADDITIVES		method	limit/base	current	history1	history2		
Boron	ppm	ASTM D5185m	0	10	14	17		
Barium	ppm	ASTM D5185m	0	0	0	0		
Molybdenum	ppm	ASTM D5185m	60	57	57	59		
Manganese	ppm	ASTM D5185m	0	<1	<1	<1		
Magnesium	ppm	ASTM D5185m	1010	935	992	961		
Calcium	ppm	ASTM D5185m	1070	1132	1206	1148		
Phosphorus	ppm	ASTM D5185m	1150	1020	1102	1072		
Zinc	ppm	ASTM D5185m	1270	1239	1335	1228		
Sulfur	ppm	ASTM D5185m	2060	3332	3987	3449		
CONTAMINAN	ITS	method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185m	>25	7	6	7		
Sodium	ppm	ASTM D5185m		0	<1	2		
Potassium	ppm	ASTM D5185m	>20	0	1	2		
INFRA-RED		method	limit/base	current	history1	history2		
Soot %	%	*ASTM D7844	>4	0.5	0.4	0.2		
Nitration	Abs/cm	*ASTM D7624	>20	7.6	6.7	5.6		
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.2	18.3	17.6		
	FLUID DEGRADATION method limit/base current history1 history2							
FLUID DEGRAI	DATION	method	limit/base	current	history1	history2		
FLUID DEGRAI	DATION Abs/.1mm	method *ASTM D7414	limit/base >25	current 14.5	history1 13.8	history2 13.2		



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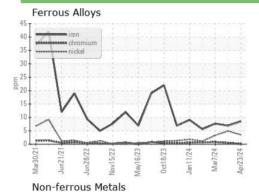


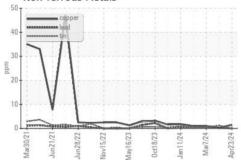


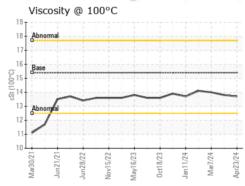
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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

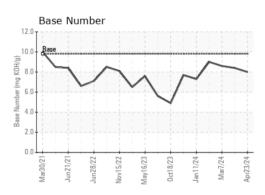
FLUID PROPE	ERITES	metnoa	ilmit/base	current	nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	15.4	13.7	13.8	14.0

## **GRAPHS**













Certificate 12367

Laboratory Sample No. Lab Number : 06158943 Unique Number : 10994366 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0116621

Received : 24 Apr 2024 **Tested** : 25 Apr 2024 Diagnosed

: 25 Apr 2024 - Wes Davis

GFL Environmental - 652 - Fredericksburg Hauling

10954 Houser Drive Fredericksburg, VA US 22408

Contact: WILLIAM MILO wmilo@gflenv.com

T:

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) Report Id: GFL652 [WUSCAR] 06158943 (Generated: 04/25/2024 11:14:57) Rev: 1

Submitted By: TECHNICIAN ACCOUNT

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