

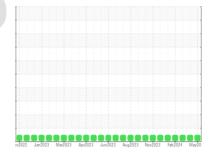
# **OIL ANALYSIS REPORT**



# (62A0YN3) ALEXANDER CITY 411000-411000

Diesel Engine

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



Sample Rating Trend



### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Woor

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil

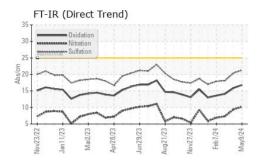
### **Fluid Condition**

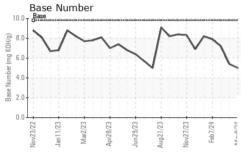
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

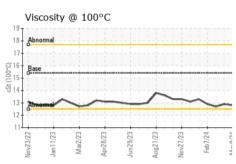
SAMPLE INFORI	MATION	method	limit/base	ourront	history1	history?	
	VIATION		IIIIIIVDase	current	•	history2	
Sample Number		Client Info		GFL0079727	GFL0091348	GFL0089932	
Sample Date		Client Info		09 May 2024	17 Apr 2024	25 Mar 2024	
Machine Age	hrs	Client Info		9230	9044	8855	
Oil Age	hrs	Client Info		3394	3208	3019	
Oil Changed		Client Info		N/A	N/A	N/A	
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	15	11	8	
Chromium	ppm	ASTM D5185m	>20	<1	<1	0	
Nickel	ppm	ASTM D5185m	>15	2	<1	<1	
Titanium	ppm	ASTM D5185m	>2	<1	<1	0	
Silver	ppm	ASTM D5185m	>3	<1	0	0	
Aluminum	ppm	ASTM D5185m	>20	4	2	2	
Lead	ppm	ASTM D5185m	>40	<1	<1	0	
Copper	ppm	ASTM D5185m	>330	8	7	1	
Tin	ppm	ASTM D5185m	>15	<1	<1	0	
Vanadium	ppm	ASTM D5185m		<1	<1	0	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	2	3	8	
Barium	ppm	ASTM D5185m	0	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	60	56	61	
Manganese	ppm	ASTM D5185m	0	<1	<1	0	
Magnesium	ppm	ASTM D5185m	1010	765	779	958	
Calcium	ppm	ASTM D5185m	1070	995	976	1138	
Phosphorus	ppm	ASTM D5185m	1150	810	783	1039	
Zinc	ppm	ASTM D5185m	1270	1041	974	1259	
Sulfur	ppm	ASTM D5185m	2060	2503	2738	3712	
CONTAMINAN	TS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	7	6	4	
Sodium	ppm	ASTM D5185m		4	5	2	
Potassium	ppm	ASTM D5185m	>20	4	<1	2	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>4	0.5	0.4	0.3	
Nitration	Abs/cm	*ASTM D7624	>20	10.2	9.4	7.3	
Sulfation	Abs/.1mm	*ASTM D7415		21.3	20.4	18.1	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.8	15.9	14.1	
CAIGGIOIT	/100/. [[[[[[]	, 10 I M D I T I T	720	. 0.0	. 0.0	1-7.1	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	5.0	5.4	7.2	



## **OIL ANALYSIS REPORT**



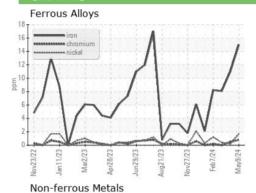


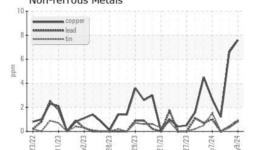


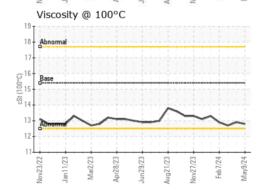
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

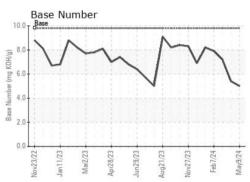
FLUID PROPE	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	12.8	12.9	12.7

### **GRAPHS**













Laboratory Sample No.

Lab Number : 06178553 Unique Number : 11029879

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0079727 Received : 14 May 2024

**Tested** : 15 May 2024 Diagnosed : 15 May 2024 - Wes Davis

Multiple Sites Montgomery, AL US 36108 Contact: RICHARD HATFIELD

GFL Environmental - 172 - Montgomery-Alexander City-Tallahassee

Test Package : FLEET Certificate 12367 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: GFL172 [WUSCAR] 06178553 (Generated: 05/15/2024 12:52:06) Rev: 1

Submitted By: Lisa Reeves

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