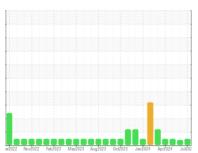


# **OIL ANALYSIS REPORT**

Sample Rating Trend



NORMAL



Machine Id **726046-310041** 

Component
Diesel Engine

Fluid\_\_\_\_

# 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

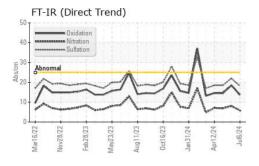
## **Fluid Condition**

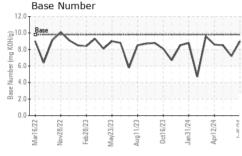
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

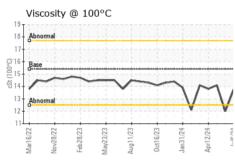
GAL) wdozz Fwdozz Fwdozz Mwydozz Augdozz Ocdozz Jwdozz Jwdozz Jwdoz Jwdozi									
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2			
Sample Number		Client Info		GFL0124082	GFL0120236	GFL0117225			
Sample Date		Client Info		06 Jul 2024	31 May 2024	13 May 2024			
Machine Age	hrs	Client Info		16142	15966	15837			
Oil Age	hrs	Client Info		0	0	0			
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd			
Sample Status				NORMAL	ATTENTION	NORMAL			
CONTAMINAT	ION	method	limit/base	current	history1	history2			
Fuel		WC Method	>5	<1.0	0.5	<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	>80	8	3	12			
Chromium	ppm	ASTM D5185m	>5	0	0	0			
Nickel	ppm	ASTM D5185m	>2	0	0	0			
Titanium	ppm	ASTM D5185m		0	0	0			
Silver	ppm	ASTM D5185m	>3	0	0	0			
Aluminum	ppm	ASTM D5185m	>30	2	4	5			
Lead	ppm	ASTM D5185m	>30	0	0	0			
Copper	ppm	ASTM D5185m	>150	0	2	<1			
Tin	ppm	ASTM D5185m	>5	0	0	<1			
Vanadium	ppm	ASTM D5185m		0	0	0			
Cadmium	ppm	ASTM D5185m		0	0	0			
ADDITIVES		method	limit/base	current	history1	history2			
Boron	ppm	ASTM D5185m	0	2	52	5			
Barium	ppm	ASTM D5185m	0	0	0	0			
Molybdenum	ppm	ASTM D5185m	60	58	2	59			
Manganese	ppm	ASTM D5185m	0	0	<1	<1			
Magnesium	ppm	ASTM D5185m	1010	958	795	921			
Calcium	ppm	ASTM D5185m	1070	1116	1211	1074			
Phosphorus	ppm	ASTM D5185m	1150	1044	721	1039			
Zinc	ppm	ASTM D5185m	1270	1241	824	1245			
Sulfur	ppm	ASTM D5185m	2060	3539	2523	3564			
CONTAMINAN	ITS	method	limit/base	current	history1	history2			
Silicon	ppm	ASTM D5185m	>20	4	0	3			
Sodium	ppm	ASTM D5185m		5	<1	9			
Potassium	ppm	ASTM D5185m	>20	3	2	7			
INFRA-RED		method	limit/base	current	history1	history2			
Soot %	%	*ASTM D7844	>3	0.1	0.1	0.2			
Nitration	Abs/cm	*ASTM D7624	>20	5.8	8.1	6.9			
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.1	22.0	18.5			
FLUID DEGRADATION method limit/base current history1 history2									
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.7	18.5	14.5			
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	9.0	7.2	8.5			
( ) (	0 - 0								

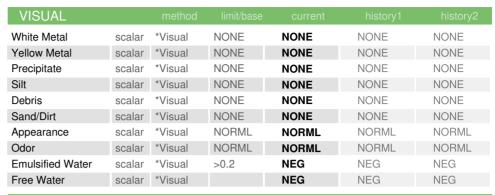


# **OIL ANALYSIS REPORT**



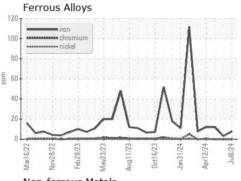


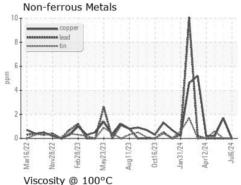


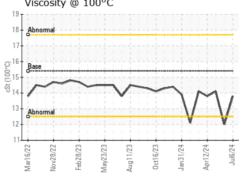


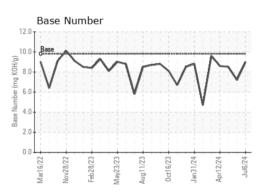
FLUID PROPI	ERITES	method	iimii/base		nistory i	nistoryz
Visc @ 100°C	cSt	ASTM D445	15.4	13.8	12.0	14.1

## **GRAPHS**













Certificate 12367

Laboratory Sample No. Lab Number : 06235473

: GFL0124082 Unique Number : 11124307 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 15 Jul 2024

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

7801 East Truman Road Kansas City, MO US 64126

Contact: Loyce Stewart loyce.stewart@gflenv.com

GFL Environmental - 836 - Kansas City Hauling

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: GFL836 [WUSCAR] 06235473 (Generated: 07/15/2024 16:09:55) Rev: 1

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