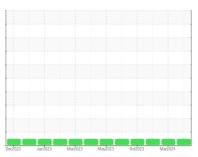


# **OIL ANALYSIS REPORT**

Sample Rating Trend



**NORMAL** 



Machine Id 732018

Natural Gas 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**

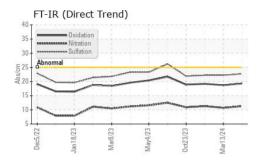
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

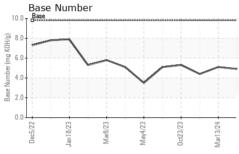
GAL)		Dec2022	Jan 2023 Mar 2023	May2023 Oct2023 M	ar2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0121919	GFL0106786	GFL0092136
Sample Date		Client Info		16 May 2024	13 Mar 2024	04 Jan 2024
Machine Age	hrs	Client Info		6566	5990	5400
Oil Age	hrs	Client Info		600	600	600
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	16	9	11
Chromium	ppm	ASTM D5185m	>4	1	0	<1
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>9	3	<1	2
Lead	ppm	ASTM D5185m	>30	1	0	0
Copper	ppm	ASTM D5185m	>35	<1	0	<1
Tin	ppm	ASTM D5185m	>4	<1	0	0
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	1	10	6
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	65	55	56
Manganese	ppm	ASTM D5185m	0	<1	0	0
Magnesium	ppm	ASTM D5185m	1010	663	605	568
Calcium	ppm	ASTM D5185m	1070	2090	1830	1637
Phosphorus	ppm	ASTM D5185m	1150	804	804	741
Zinc	ppm	ASTM D5185m	1270	1106	1089	997
Sulfur	ppm	ASTM D5185m	2060	2901	3067	2544
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	10	5	6
Sodium	ppm	ASTM D5185m		10	6	7
Potassium	ppm	ASTM D5185m	>20	0	0	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1	0	0
Nitration	Abs/cm	*ASTM D7624	>20	11.3	10.7	11.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.7	22.2	22.2
FLUID DEGRAI	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.3	18.7	19.2

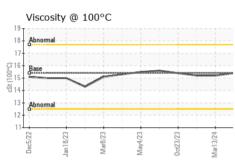
Base Number (BN) mg KOH/g ASTM D2896 9.8 4.9



# **OIL ANALYSIS REPORT**



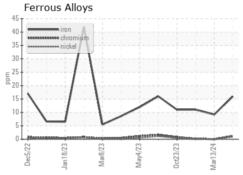


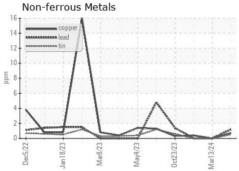


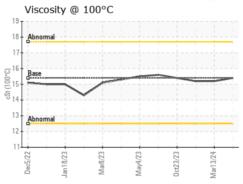
VISUAL		method				history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

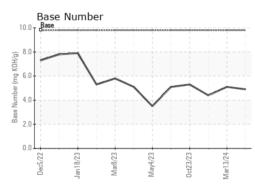
FL	LUID PROP	ERHES	method				history2
Visc	@ 100°C	cSt	ASTM D445	15.4	15.4	15.2	15.2

## **GRAPHS**













Certificate 12367

Laboratory Sample No. Unique Number : 11045570

Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0121919 Lab Number : 06188818

Received **Tested** Diagnosed

: 23 May 2024 : 24 May 2024

: 28 May 2024 - Don Baldridge

GFL Environmental - 856 - Houston South

8515 Highway 6 South Houston, TX

US 77083 Contact: Jose Gonzalez jgonzalez2@gflenv.com

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)

T:

F: