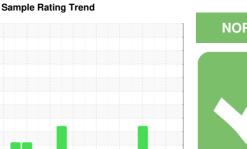


# **OIL ANALYSIS REPORT**



**NORMAL** 



(TPF1873) 726040-361629

**Diesel Engine** 

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

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

Metal levels are typical for a new component breaking in.

### Contamination

There is no indication of any contamination in the

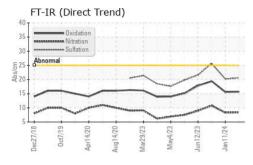
### **Fluid Condition**

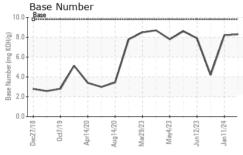
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

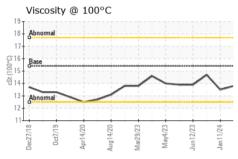
JAL)		Jec2018 Oct	2019 Apr2020 Aug2020	Mar2023 May2023 Jun2023	Jan2024	
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0106754	GFL0092079	GFL0084644
Sample Date		Client Info		04 Apr 2024	11 Jan 2024	22 Oct 2023
Machine Age	hrs	Client Info		19787	19229	0
Oil Age	hrs	Client Info		600	0	0
Oil Changed		Client Info		Changed	Changed	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ΓΙΟΝ	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	>165	12	3	9
Chromium	ppm	ASTM D5185m	>5	1	<1	<1
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m	>2	<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	4	1	1
Lead	ppm	ASTM D5185m	>150	2	<1	0
Copper	ppm	ASTM D5185m	>90	1	1	<1
Tin	ppm		>5	1	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	2
Barium	ppm	ASTM D5185m	0	<1	0	0
Molybdenum	ppm	ASTM D5185m	60	59	56	57
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m	1010	980	893	920
Calcium	ppm	ASTM D5185m	1070	1117	978	1046
Phosphorus	ppm	ASTM D5185m	1150	1135	1022	952
Zinc	ppm	ASTM D5185m	1270	1295	1175	1202
Sulfur	ppm	ASTM D5185m	2060	3463	2779	2894
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>35	6	4	5
Sodium	ppm	ASTM D5185m		5	2	6
Potassium	ppm	ASTM D5185m	>20	4	0	4
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>7.5	0.7	0.6	0.9
Nitration	Abs/cm	*ASTM D7624	>20	8.4	8.3	10.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.6	20.2	25.7
FLUID DEGRA	NOITAD.	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.7	15.6	19.4
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.3	8.2	4.2



## **OIL ANALYSIS REPORT**



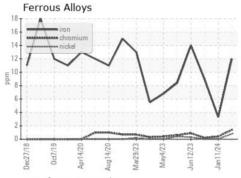


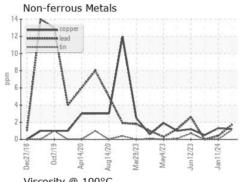


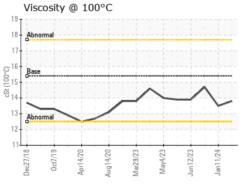
VISUAL		method				history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance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

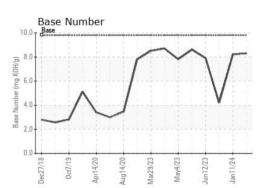
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.8	13.5	14.7

## **GRAPHS**













Laboratory Sample No. Lab Number : 06143540 Unique Number : 10968348

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0106754

Received **Tested** Diagnosed

: 09 Apr 2024 : 10 Apr 2024 : 10 Apr 2024 - Wes Davis

GFL Environmental - 856 - Houston South

8515 Highway 6 South Houston, TX US 77083

Contact: Jose Gonzalez

jgonzalez2@gflenv.com

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: GFL856 [WUSCAR] 06143540 (Generated: 04/10/2024 13:40:17) Rev: 1

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