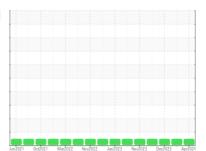


## **OIL ANALYSIS REPORT**

# Sample Rating Trend









Machine Id
375M
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

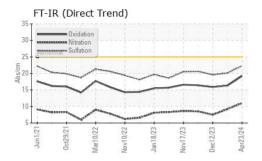
## **Fluid Condition**

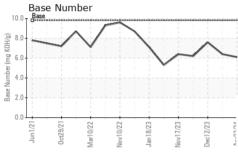
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

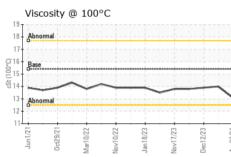
SAMPLE INFORMA	ATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0117607	GFL0108701	GFL0105624	
Sample Date		Client Info		23 Apr 2024	01 Feb 2024	12 Dec 2023	
Machine Age	hrs	Client Info		15886	15295	14876	
, and the second	hrs	Client Info		22774	22774	22774	
Oil Changed		Client Info		Changed	Changed	Not Changd	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINATIO	N	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 METALS		method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>120	27	8	10	
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1	
	ppm	ASTM D5185m	>5	0	<1	0	
	ppm	ASTM D5185m	>2	0	0	0	
	ppm	ASTM D5185m	>2	0	0	0	
	ppm	ASTM D5185m	>20	2	3	2	
	ppm	ASTM D5185m	>40	0	<1	0	
	ppm	ASTM D5185m	>330	0	1	<1	
	ppm	ASTM D5185m	>15	0	<1	0	
	ppm	ASTM D5185m	710	0	<1	<1	
		ASTM D5185m		0	0	0	
	ppm		11 1.0				
ADDITIVES		method	limit/base	current	history1	history2	
	ppm	ASTM D5185m	0	<1	7	0	
Barium	ppm	ASTM D5185m	0	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	57	58	55	
Manganese	ppm	ASTM D5185m	0	0	<1	0	
Magnesium	ppm	ASTM D5185m	1010	967	972	927	
Calcium	ppm	ASTM D5185m	1070	1059	1045	1039	
Phosphorus	ppm	ASTM D5185m	1150	989	1020	991	
Zinc	ppm	ASTM D5185m	1270	1249	1192	1265	
Sulfur	ppm	ASTM D5185m	2060	3284	2406	2403	
CONTAMINANT	S	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	4	4	4	
Sodium	ppm	ASTM D5185m		6	4	3	
Potassium	ppm	ASTM D5185m	>20	<1	4	<1	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>4	1.1	0.5	0.4	
Nitration	Abs/cm	*ASTM D7624	>20	11.0	9.2	7.5	
	Abs/.1mm	*ASTM D7415	>30	22.3	20.1	19.6	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation /	Abs/.1mm	*ASTM D7414	>25	19.2	16.3	15.9	
	mg KOH/g	ASTM D2896		6.1	6.4	7.6	
= 3.55 · · · · · · · · · · · · · · · · · ·			3.0	<b>V.</b> 1	0.1		



## **OIL ANALYSIS REPORT**



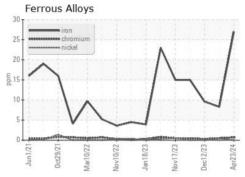


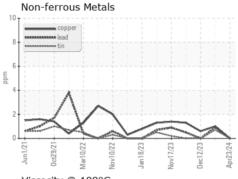


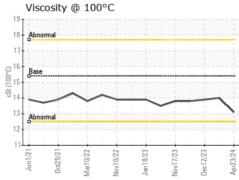
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

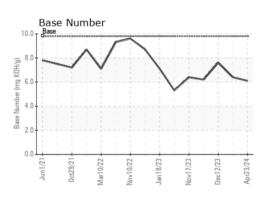
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.1	14.0	13.9

## **GRAPHS**













Certificate 12367

Laboratory Sample No. Lab Number : 06160060 Unique Number : 10995483 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0117607 Received **Tested** 

: 25 Apr 2024 Diagnosed : 25 Apr 2024 - Wes Davis

: 25 Apr 2024

GFL Environmental - 415 - Michigan East

6200 Elmridge Sterling Heights, MI US 48313 Contact: Frank Wolak

fwolak@gflenv.com T: (586)825-9514

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)