

## **OIL ANALYSIS REPORT**

Sample Rating Trend

# NORMAL

Machine Id

## 429057-402462

### Diesel Engine

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

#### 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.

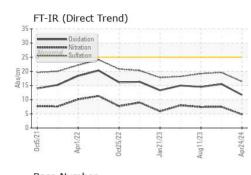
#### Fluid Condition

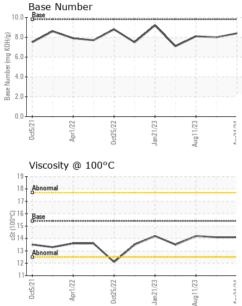
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0092591	GFL0092566	GFL0071925
Sample Date		Client Info		24 Apr 2024	06 Dec 2023	11 Aug 2023
Machine Age	hrs	Client Info		12162	11292	10533
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
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method		NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>110	0	8	8
Chromium	ppm	ASTM D5185m	>4	0	<1	<1
Nickel		ASTM D5185m	>2	0	0	0
Titanium	ppm ppm	ASTM D5185m	~~	0	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m		0	1	5
Lead		ASTM D5185m	>45	0	<1	0
Copper	ppm ppm	ASTM D5185m		0	<1	<1
Tin	ppm	ASTM D5185m	>05	۰ <1	0	0
Vanadium	ppm	ASTM D5185m	24	0	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	0
	ppin		1			-
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	1	3	<1
Barium	ppm		0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	43	60	62
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m	1010	739	947	978
Calcium	ppm		1070	1319	1117	1218
Phosphorus	ppm	ASTM D5185m	1150	1033	1082	1058
Zinc	ppm	ASTM D5185m	1270	1195	1297	1343
Sulfur	ppm	ASTM D5185m	2060	3613	3018	3975
CONTAMINAN	15	method	limit/base	current	history1	history2
Silicon	ppm		>30	2	5	2
Sodium	ppm	ASTM D5185m		<1	2	4
Potassium	ppm	ASTM D5185m	>20	0	0	19
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	0.3	0.6
Nitration	Abs/cm	*ASTM D7624	>3 >20	4.8	7.5	7.4
		*ASTM D7624				
Nitration	Abs/cm Abs/.1mm	*ASTM D7624	>20	4.8	7.5	7.4
Nitration Sulfation	Abs/cm Abs/.1mm	*ASTM D7624 *ASTM D7415	>20 >30	4.8 16.4	7.5 19.6	7.4 19.2
Nitration Sulfation FLUID DEGRAD	Abs/cm Abs/.1mm DATION	*ASTM D7624 *ASTM D7415 method	>20 >30 limit/base	4.8 16.4 current	7.5 19.6 history1	7.4 19.2 history2

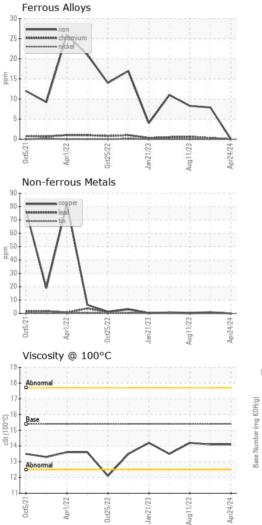


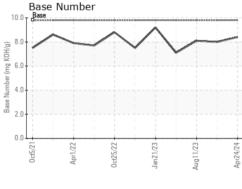
## **OIL ANALYSIS REPORT**





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
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.1	14.1	14.2
GRAPHS						





Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 GFL Environmental - 885 - Orlando Sample No. : GFL0092591 Received : 25 Apr 2024 1263 W Landstreet Rd Lab Number : 06160160 Tested : 26 Apr 2024 Orlando, FL Unique Number : 10995583 Diagnosed : 26 Apr 2024 - Wes Davis US 32824 Test Package : FLEET Contact: DAWN WALLACE Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. T: \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. F:

 Elements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

 Report Id: GFL885 [WUSCAR] 06160160 (Generated: 04/26/2024 07:37:23) Rev: 1
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Submitted By: TIMOTHY MOURER Page 2 of 2