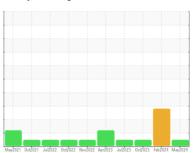


# **OIL ANALYSIS REPORT**

## Sample Rating Trend









Machine Id **925036-142557** Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (8 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

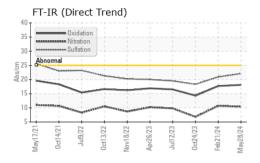
### **Fluid Condition**

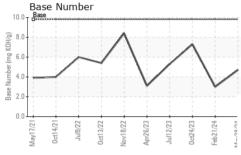
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

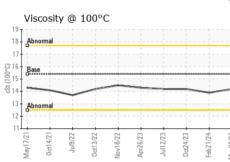
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0110801	GFL0110810	GFL007322
Sample Date		Client Info		28 May 2024	21 Feb 2024	24 Oct 2023
Machine Age	hrs	Client Info		22547	22016	21453
Oil Age	hrs	Client Info		600	600	650
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	ABNORMAL	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	>120	23	23	5
Chromium	ppm	ASTM D5185m	>20	4	2	<1
Nickel	ppm	ASTM D5185m	>5	2	<1	0
Titanium	ppm	ASTM D5185m	>2	<1	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	3	3	1
Lead	ppm	ASTM D5185m	>40	6	<1	0
Copper	ppm	ASTM D5185m	>330	9	2	2
Tin	ppm	ASTM D5185m	>15	2	0	0
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	5	9	47
Barium	ppm	ASTM D5185m	0	<1	0	0
Molybdenum	ppm	ASTM D5185m	60	67	56	55
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	562	489	502
Calcium	ppm	ASTM D5185m	1070	1667	1516	1423
Phosphorus	ppm	ASTM D5185m	1150	754	629	682
Zinc	ppm	ASTM D5185m	1270	984	839	883
Sulfur	ppm	ASTM D5185m	2060	2589	2026	2220
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	15	<u>^</u> 26	6
Sodium	ppm	ASTM D5185m		8	12	2
Potassium	ppm	ASTM D5185m	>20	3	0	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.1	0.1	0
Nitration	Abs/cm	*ASTM D7624	>20	10.4	10.7	6.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.1	20.9	18.3
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.1	17.7	14.3



# **OIL ANALYSIS REPORT**



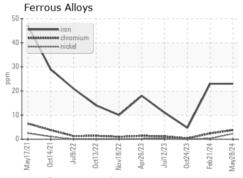




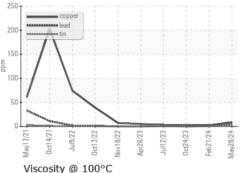
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

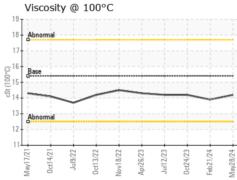
FLUID PROP	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.2	13.9	14.2

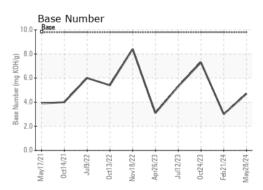
### **GRAPHS**















Certificate 12367

Laboratory Sample No.

Test Package : FLEET

: GFL0110801 Lab Number : 06196316 Unique Number : 11058439

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 31 May 2024

**Tested** : 03 Jun 2024 : 03 Jun 2024 - Don Baldridge Diagnosed

GFL Environmental - 146 - Augusta

1064 Franke Industrial Augusta, GA

US 30909 Contact: JEFFERY WASHINGTON jeff.washington@gflenv.com

T:

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)

F: