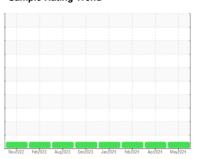


# **OIL ANALYSIS REPORT**

Sample Rating Trend



NORMAL



Machine Id
825068
Component

Diesel Engine

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.

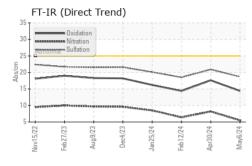
## **Fluid Condition**

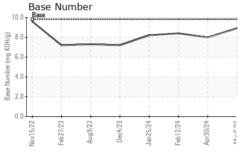
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

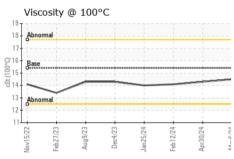
Mondazz Fedzaza Anudaza Dendaza Jamilaza Fedzaza Anudaza Mendaza Mendaza Mendaza						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0120608	GFL0108463	GFL0108495
Sample Date		Client Info		06 May 2024	30 Apr 2024	12 Feb 2024
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATI	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS	3	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	0	10	3
Chromium	ppm	ASTM D5185m		<1	1	<1
Nickel	ppm	ASTM D5185m	>4	0	<1	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	0	<1	0
Aluminum	ppm	ASTM D5185m		<1	2	1
Lead	ppm	ASTM D5185m	>40	0	2	0
Copper	ppm	ASTM D5185m		0	<1	0
Tin	ppm	ASTM D5185m	>15	<1	2	0
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	2	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	20	2	6
Barium	ppm	ASTM D5185m		1	0	0
Molybdenum	ppm	ASTM D5185m	60	60	56	60
Manganese	ppm	ASTM D5185m		<1	1	0
Magnesium	ppm	ASTM D5185m	1010	943	1083	1053
Calcium	ppm	ASTM D5185m		1070	1207	1139
Phosphorus	ppm	ASTM D5185m	1150	1130	1153	1124
Zinc Sulfur	ppm	ASTM D5185m ASTM D5185m	1270 2060	1235 3724	1385 3983	1341 3359
	ppm					
CONTAMINAN		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	2	5	5
Sodium	ppm	ASTM D5185m	00	1	4	2
Potassium	ppm	ASTM D5185m	>20	0	2	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.5	0.2
Nitration	Abs/cm	*ASTM D7624		5.5	8.2	6.4
Sulfation	Abs/.1mm	*ASTM D7415		18.7	20.9	18.5
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.4	17.6	14.4
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.9	8.0	8.4



# **OIL ANALYSIS REPORT**



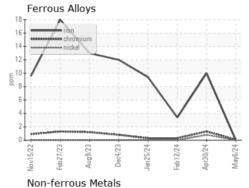




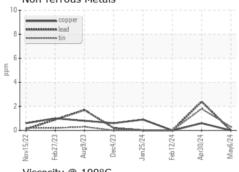
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

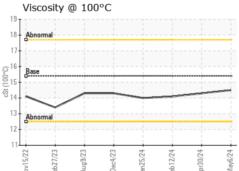
FLUID PROPI	ERHES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.5	14.3	14.1

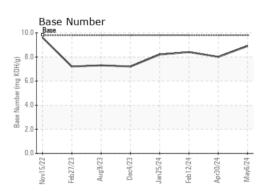
## **GRAPHS**















Laboratory Sample No.

Lab Number : 06178388

: GFL0120608 Unique Number : 11029714

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

: 14 May 2024 **Tested** : 14 May 2024 Diagnosed

: 14 May 2024 - Wes Davis

GFL Environmental - 904 - Chippewa Falls HC

11888 & 11863 30th Avenue Chippewa Falls, WI US 54729

Contact: Andy Kane

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) T: (715)202-3420