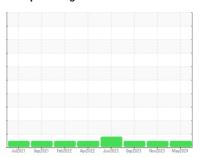


# **OIL ANALYSIS REPORT**

Sample Rating Trend



**NORMAL** 



Machine Id 924025-260243

Component

Diesel Engine

PETRO CANADA DURON GEO LD 15W40 (7 GAL)

# DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the

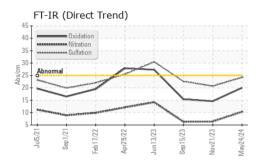
## **Fluid Condition**

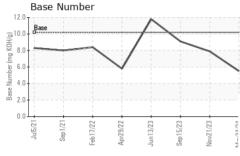
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

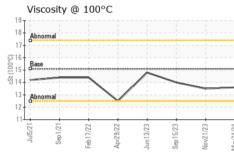
(7 GAL) Judozi Smjdozi Febdozz Apridozz Junidoza Smjdoza Newidoza Majdoza						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0120947	GFL0081044	GFL0071769
Sample Date		Client Info		24 May 2024	21 Nov 2023	15 Sep 2023
Machine Age	hrs	Client Info		7090	5928	5778
Oil Age	hrs	Client Info		1162	650	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	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	43	78	81
Chromium	ppm	ASTM D5185m	>20	2	3	2
Nickel	ppm	ASTM D5185m	>4	1	<1	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	3	10	7
Lead	ppm	ASTM D5185m	>40	<1	<1	2
Copper	ppm	ASTM D5185m	>330	4	9	7
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	18	333	361
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	50	48	85	90
Manganese	ppm	ASTM D5185m	0	1	4	3
Magnesium	ppm	ASTM D5185m	560	492	464	432
Calcium	ppm	ASTM D5185m	1510	1445	1420	1444
Phosphorus	ppm	ASTM D5185m	780	706	961	941
Zinc	ppm	ASTM D5185m	870	890	1165	1147
Sulfur	ppm	ASTM D5185m	2040	2547	3061	3593
CONTAMINAN		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	7	21	19
Sodium Potassium	ppm	ASTM D5185m ASTM D5185m	>20	20 6	36 4	35 4
INFRA-RED	p p · · ·	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1.4	0.5	0
Nitration	Abs/cm	*ASTM D7624	>20	10.3	6.4	6.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.2	20.7	22.6
FLUID DEGRAI	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.0	14.6	15.4
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	5.5	7.9	9.1
, ,	- 0					



# **OIL ANALYSIS REPORT**



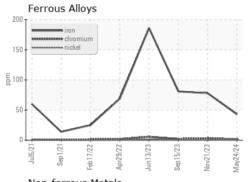


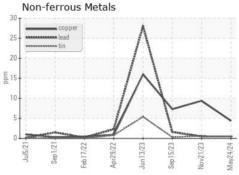


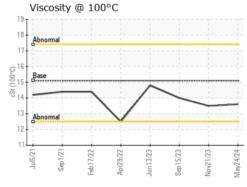
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

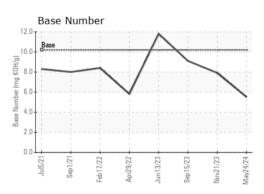
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.1	13.6	13.5	14.0

## **GRAPHS**













Laboratory Sample No.

Lab Number : 06193428 Unique Number : 11050180

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0120947 Received : 28 May 2024

**Tested** : 30 May 2024 Diagnosed : 30 May 2024 - Wes Davis

1378 South Volusia Ave Orange City, FL US 32763

Contact: JEFF COOPERSMITH JCOOPERSMITH@GFLENV.COM

GFL Environmental - 883 - Orange City

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: GFL883 [WUSCAR] 06193428 (Generated: 05/30/2024 08:48:17) Rev: 1

Submitted By: Daniel Wheeler

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