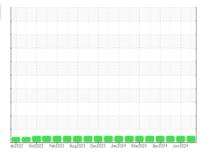


# **OIL ANALYSIS REPORT**

Sample Rating Trend







Machine Id 812036

Component
Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- Shots)

## 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

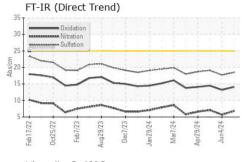
### **Fluid Condition**

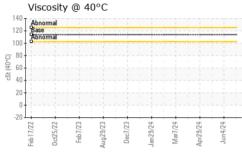
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

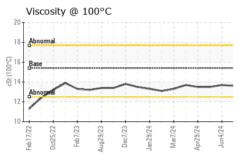
Shots) ebź022 0zd022 Febź023 Aug2023 Dez023 Jas/2024 Mazł024 Apz/2024 Jus/2024						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0122570	GFL0117921	GFL0117937
Sample Date		Client Info		27 Jun 2024	04 Jun 2024	10 May 2024
Machine Age	hrs	Client Info		4993	48911	4755
Oil Age	hrs	Client Info		238	136	313
Oil Changed		Client Info		Not Changd	Not Changd	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	>110	4	4	6
Chromium	ppm	ASTM D5185m	>4	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	3	3
Lead	ppm	ASTM D5185m	>45	0	<1	<1
Copper	ppm	ASTM D5185m	>85	<1	1	<1
Tin	ppm	ASTM D5185m	>4	0	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	2	1	1
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	61	65	61
Manganese	ppm	ASTM D5185m	0	<1	0	<1
Magnesium	ppm	ASTM D5185m	1010	1083	953	955
Calcium	ppm	ASTM D5185m	1070	1225	1116	1142
Phosphorus	ppm	ASTM D5185m	1150	1132	1110	1027
Zinc	ppm	ASTM D5185m	1270	1421	1245	1253
Sulfur	ppm	ASTM D5185m	2060	4036	3238	3426
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm		>30	4	4	4
Sodium	ppm	ASTM D5185m		<1	0	1
Potassium	ppm	ASTM D5185m	>20	0	4	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0.2	0.3
Nitration	Abs/cm	*ASTM D7624	>20	6.8	5.7	7.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.5	17.7	19.1
FLUID DEGRA	NOITAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.1	13.2	14.5
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.0	8.6	8.0

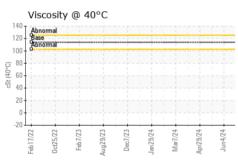


## **OIL ANALYSIS REPORT**





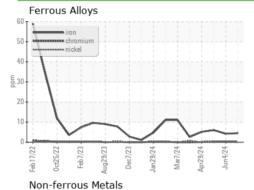


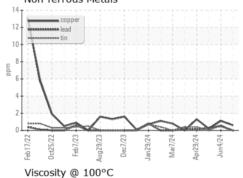


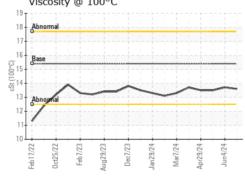
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

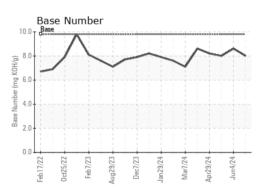
FLUID PROPE	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.6	13.7	13.5

#### **GRAPHS**













Certificate 12367

Laboratory Sample No.

: GFL0122570 Lab Number : 06224389

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

: 01 Jul 2024 **Tested** : 02 Jul 2024

1910 S CHICKASAW STREET Pauls Valley, OK US 73075 Contact: Tony Graham

GFL Environmental - 892 - Pauls Valley Hauling

Unique Number : 11102586 Test Package : FLEET ( Additional Tests: KV40 )

Diagnosed : 02 Jul 2024 - Jonathan Hester

tgraham2@wcamerica.com

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:

F: