

## **OIL ANALYSIS REPORT**

Sample Rating Trend

<u>secc</u>ite



### Machine Id

### 925019-9032

Component 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		GFL0070942	GFL0058053	GFL0100161
Sample Date		Client Info		03 Apr 2024	19 Mar 2024	14 Dec 2023
Machine Age	hrs	Client Info		19622	19521	18964
Oil Age	hrs	Client Info		550	494	564
Oil Changed		Client Info		Changed	Not Changd	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method		<1.0 NEG	NEG	NEG
		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Welliod		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>110	12	11	12
Chromium	ppm	ASTM D5185m	>4	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	0	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	2	2
Lead	ppm	ASTM D5185m	>45	<1	1	1
Copper	ppm	ASTM D5185m	>85	<1	<1	1
Tin	ppm	ASTM D5185m	>4	0	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	1	5	5
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	63	59	62
Manganese	ppm	ASTM D5185m	0	0	<1	<1
Magnesium	ppm	ASTM D5185m	1010	1029	962	946
Calcium	ppm	ASTM D5185m	1070	1131	1062	1045
Phosphorus	ppm	ASTM D5185m	1150	1031	1064	1095
Zinc	ppm	ASTM D5185m	1270	1321	1273	1285
Sulfur	ppm	ASTM D5185m	2060	3863	3636	3158
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	4	4	4
Sodium	ppm	ASTM D5185m		2	2	2
Potassium	ppm	ASTM D5185m	>20	<1	<1	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5	0.5	0.5
Nitration	Abs/cm	*ASTM D7624		7.0	6.7	7.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.9	18.8	19.1
FLUID DEGRAD	DAT <u>ION</u>	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.3	14.0	14.3
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.8	8.7	8.6
				0.0	0	0.0

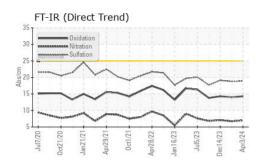


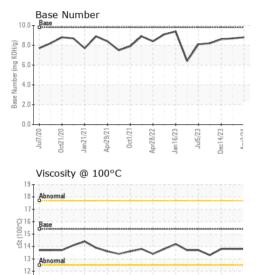
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# **OIL ANALYSIS REPORT**





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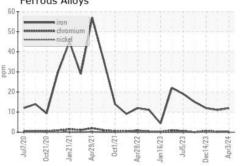
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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	13.8	13.8	13.8
GRAPHS						

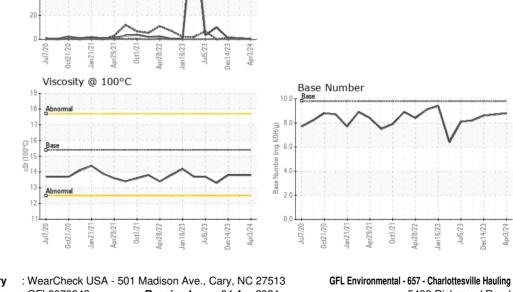
Ferrous Alloys

Non-ferrous Metals

Jec14/23

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Laboratory Sample No. : GFL0070942 Received : 04 Apr 2024 5498 Richmond Road Lab Number : 06138398 Tested : 05 Apr 2024 Troy, VA US 22974 Unique Number : 10963206 Diagnosed : 05 Apr 2024 - Wes Davis Test Package : FLEET Contact: Brian Ulickas Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. bulickas@gflenv.com \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F:

Report Id: GFL657 [WUSCAR] 06138398 (Generated: 04/05/2024 07:33:56) Rev: 1

Submitted By: TECHNICIAN ACCOUNT

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