

## **OIL ANALYSIS REPORT**

#### Sample Rating Trend





## Component

**Diesel Engine** Fluid

## PETRO CANADA DURON SHP 15W40 (40 QT

## 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.

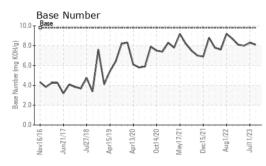
## Fluid Condition

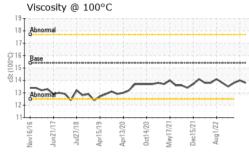
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

TS)		v2016 Jun2017	Jui2018 Apr2019 Apr201	20 0et2020 May2021 Dec2021 Aug	2022 Jul2023	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0085170	GFL0071575	GFL0053142
Sample Date		Client Info		02 Nov 2023	11 Jul 2023	04 Apr 2023
Machine Age	hrs	Client Info		10031	10031	10031
Dil Age	hrs	Client Info		600	600	600
Dil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>165	14	19	24
Chromium	ppm	ASTM D5185m	>5	<1	<1	0
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Fitanium	ppm	ASTM D5185m	>2	<1	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	3	12
_ead	ppm	ASTM D5185m	>150	2	1	0
Copper	ppm	ASTM D5185m	>90	<1	<1	0
Γin	ppm	ASTM D5185m	>5	<1	<1	0
/anadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	8	5	7
Barium	ppm	ASTM D5185m	0	5	<1	0
Nolybdenum	ppm	ASTM D5185m	60	62	68	63
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	862	1076	856
Calcium	ppm	ASTM D5185m	1070	1099	1226	1146
Phosphorus	ppm	ASTM D5185m	1150	1071	1188	986
Zinc	ppm	ASTM D5185m	1270	1204	1441	1170
Sulfur	ppm	ASTM D5185m	2060	3348	4043	3079
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>35	6	5	21
Sodium	ppm	ASTM D5185m		0	4	4
Potassium	ppm	ASTM D5185m	>20	4	4	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>7.5	0.5	0.6	0.5
Nitration	Abs/cm	*ASTM D7624	>20	8.6	10.2	9.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.6	21.6	21.4
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Dxidation	Abs/.1mm	*ASTM D7414	>25	16.1	17.9	17.4



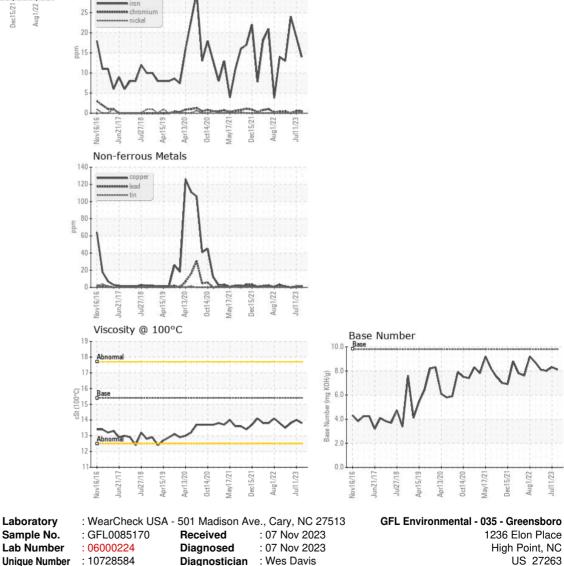
# **OIL ANALYSIS REPORT**





30

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	14.0	13.8
GRAPHS						
Ferrous Alloys						





Test Package : FLEET Certificate L2367 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) Contact: JORGE COSTA

jorge.costa@gflenv.com

T: (336)668-3712

F:

Jul11/23