

## **OIL ANALYSIS REPOR**

SAMPLE INFORMA

CONTAMINATIO

WEAR METALS

Sample Number

Sample Date

Machine Age

Oil Changed

Sample Status

Oil Age

Fuel

Iron

Nickel

Silver

Lead

Tin

Copper

Titanium

Aluminum

Vanadium

Cadmium

ppm

ppm

ASTM D5185m

ASTM D5185m

Chromium

Glycol

#### Sample Rating Trend

### NORM

# Machine Id 10543

Component **Diesel Engine** 

Fluid

#### PETRO CANADA DURON SHP 15W40 (36 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.

RT				N	ORMAL
	2014 Aug2	Ap/2016 Ap/2017	Jun2018 Ap/2019 Jan2023	Sep2023	
MATIC	N method	limit/base	current	history1	history2
hrs hrs	Client Info Client Info Client Info Client Info Client Info		GFL0097216 27 Oct 2023 19470 0 Not Changd NORMAL	GFL0097196 13 Oct 2023 19420 0 Changed NORMAL	GFL0069140 14 Sep 2023 19279 0 Not Changd NORMAL
ION	method	limit/base	current	history1	history2
	WC Method WC Method	>5	<1.0 NEG	<1.0 NEG	<1.0 NEG
S	method	limit/base	current	history1	history2
ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	>100 >20 >4	2 0 0 0	14 <1 <1	14 <1 <1
ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	>3 >20	0	<1 0 3	<1 0 4
ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	>40 >330 >15	0 3 0	<1 27 <1	<1 8 0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	17	3	4
Barium	ppm	ASTM D5185m	0	0	10	0
Molybdenum	ppm	ASTM D5185m	60	56	57	66
Manganese	ppm	ASTM D5185m	0	0	<1	<1
Magnesium	ppm	ASTM D5185m	1010	644	836	938
Calcium	ppm	ASTM D5185m	1070	1177	944	1080
Phosphorus	ppm	ASTM D5185m	1150	1017	936	999
Zinc	ppm	ASTM D5185m	1270	1088	1094	1231
Sulfur	ppm	ASTM D5185m	2060	2930	2686	3200
CONTAMINAN	TS	method	limit/base	current	historv1	historv2

n

0

<1

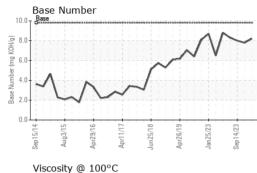
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Silicon	ppm	ASTM D5185m	>25	3	4	7
Sodium	ppm	ASTM D5185m		5	18	33
Potassium	ppm	ASTM D5185m	>20	3	1	1

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	0.2	0.2
Nitration	Abs/cm	*ASTM D7624	>20	5.2	6.3	7.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	16.7	17.8	18.6
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.3	13.3	14.2
Base Number (BN)	ma KOH/a	ASTM D2896	9.8	8.2	7.8	8.0



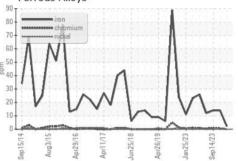
## **OIL ANALYSIS REPORT**

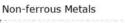




VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
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	13.9	13.8
GRAPHS						

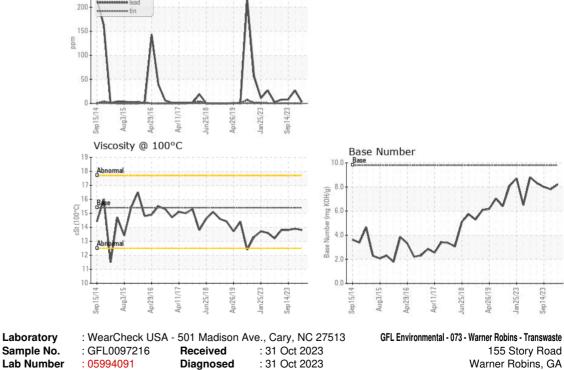
Ferrous Alloys





250

Unique Number : 10722451



Diagnostician : Wes Davis

 Certificate 12367
 Test Package
 : FLEET

 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)

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