

## **OIL ANALYSIS REPORT**

## NORMAL

## Machine Id 10530

Component Diesel Engine

Fluid

## PETRO CANADA DURON SHP 15W40 (7 GAL)

## DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

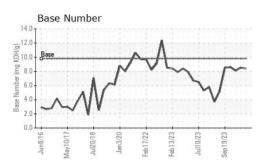
#### Fluid Condition

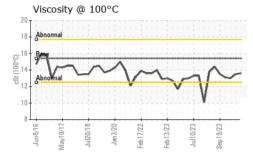
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

L)		<b>000000</b> n2016 May20	17 Jul2018 Jan2020	Feb2022 Feb2023 Jul2023 S		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0112307	GFL0109929	GFL0101196
Sample Date		Client Info		20 Feb 2024	30 Jan 2024	17 Nov 2023
Machine Age	hrs	Client Info		21740	21605	21164
Dil Age	hrs	Client Info		540	405	324
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				NORMAL	ATTENTION	ABNORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Nater		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>100	3	11	24
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Fitanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	1	4	3
ead	ppm	ASTM D5185m	>40	0	<1	<1
Copper	ppm	ASTM D5185m	>330	1	1	29
īn	ppm	ASTM D5185m	>15	<1	<1	<1
/anadium	ppm	ASTM D5185m		<1	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	18	7	11
Barium	ppm	ASTM D5185m	0	0	0	0
Nolybdenum	ppm	ASTM D5185m	60	59	59	67
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	836	842	877
Calcium	ppm	ASTM D5185m	1070	986	943	1072
Phosphorus	ppm	ASTM D5185m	1150	941	950	1009
Zinc	ppm	ASTM D5185m	1270	1102	1131	1188
Sulfur	ppm	ASTM D5185m	2060	2825	2824	3054
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	0	13	8
Sodium	ppm	ASTM D5185m		21	<b>1</b> 33	<b>2</b> 64
Potassium	ppm	ASTM D5185m	>20	0	11	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	0.5	1.1
	Abs/cm	*ASTM D7624	>20	5.0	6.7	9.6
Nitration	A03/011					
Nitration Sulfation	Abs/.1mm	*ASTM D7415	>30	17.2	18.0	20.2
	Abs/.1mm		>30 limit/base	17.2 current	18.0 history1	20.2 history2
Sulfation	Abs/.1mm					



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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	13.6	13.5	13.0
GRAPHS						

Ferrous Alloys

19

18

17

16

11 10

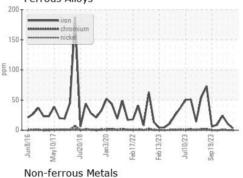
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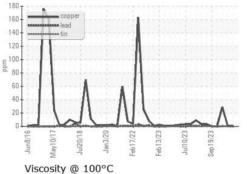
Laboratory Sample No.

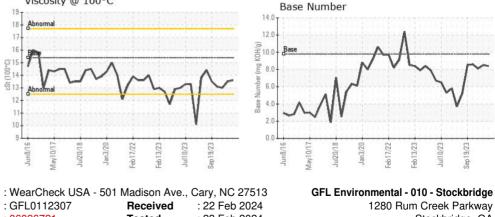
Lab Number : 06096721

Unique Number : 10889574

cSt (100°C)







Tested : 23 Feb 2024 Diagnosed : 23 Feb 2024 - Wes Davis

1280 Rum Creek Parkway Stockbridge, GA US 30281 Contact: JOSHUA TINKER joshuatinker@gflenv.com Т:

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)

Feb17/22

Jul20/18

Mav10/17

: GFL0112307

Jan3/20

F: