

## **OIL ANALYSIS REPORT**

SAMPLE INFORMATION

hrs

hrs

ppm

ppm

ASTM D5185m

ASTM D5185m

Sample Number

Sample Date

Machine Age

Oil Changed

Vanadium

Cadmium

Oil Age

#### Sample Rating Trend





Component

Diesel Engine

## PETRO CANADA DURON SHP 15W40 (8 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.

Linear a			N	ORMAL
ordolla Papera	1 Martozi Junioz	500,2021 Aug2022 Apr202	3 Sept022	
method				history2
Client Info Client Info		GFL0074446 05 Sep 2023	GFL0080594 20 Jul 2023	GFL0074436 07 Apr 2023
Client Info		47607	47607	47607
Client Info		47607	47607	47607
Client Info		Changed	Changed	Changed

Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	16	12	6
Chromium	ppm	ASTM D5185m	>20	2	1	0
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	<1	0
Aluminum	ppm	ASTM D5185m	>20	2	2	2
Lead	ppm	ASTM D5185m	>40	12	7	1
Copper	ppm	ASTM D5185m	>330	2	1	<1
Tin	ppm	ASTM D5185m	>15	<1	0	0

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ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	6	8	12
Barium	ppm	ASTM D5185m	0	2	0	0
Molybdenum	ppm	ASTM D5185m	60	58	59	47
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	757	717	494
Calcium	ppm	ASTM D5185m	1070	1525	1729	1421
Phosphorus	ppm	ASTM D5185m	1150	873	891	647
Zinc	ppm	ASTM D5185m	1270	1078	1153	813
Sulfur	ppm	ASTM D5185m	2060	3063	3330	2104
CONTAMINAN	TS	method	limit/base	current	historv1	history2

0

0

0

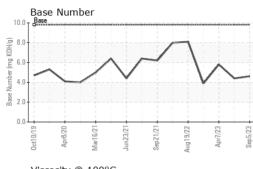
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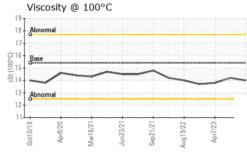
						motory
Silicon	ppm	ASTM D5185m	>25	8	7	6
Sodium	ppm	ASTM D5185m		7	6	6
Potassium	ppm	ASTM D5185m	>20	9	<1	0

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0	0	0.1
Nitration	Abs/cm	*ASTM D7624	>20	11.0	10.8	10.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.1	24.7	21.1
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.9	20.6	17.1
Base Number (BN)	ma KOH/a	ASTM D2896	9.8	4.6	4.4	5.8

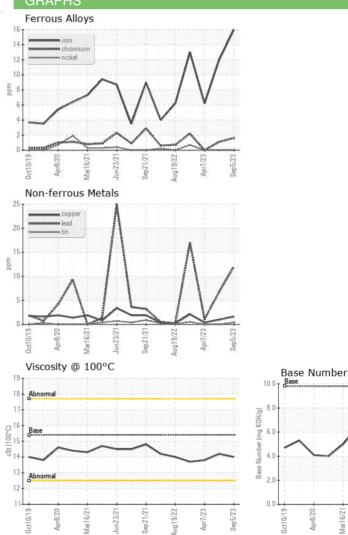


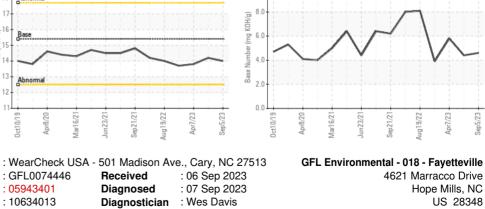
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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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	14.0	14.2	13.8
GRAPHS						









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)

Received

Diagnosed

Diagnostician : Wes Davis

: 06 Sep 2023

: 07 Sep 2023

: GFL0074446

: 05943401

Laboratory

Sample No.

Lab Number

Unique Number : 10634013