

# **OIL ANALYSIS REPORT**

#### Sample Rating Trend

### NORMAL





	-		52015 Jan20	17 Feb2018 Feb2019	Mar2020 Jan2021 Sep2021	UCC2UZZ	
	SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
	Sample Number		Client Info		GFL0087750	GFL0082263	GFL0062768
erval to monitor.	Sample Date		Client Info		14 Sep 2023	01 Jun 2023	16 Mar 2023
		nrs	Client Info		35680	31727	34597
mal.	Oil Age	hrs	Client Info		600	300	600
	Oil Changed		Client Info		Changed	Not Changd	Changed
amination in the	Sample Status				NORMAL	MARGINAL	ABNORMAL
	CONTAMINATIC	DN	method	limit/base	current	history1	history2
	Fuel		WC Method	>2.0	<1.0	<b>2</b> .8	<b>5</b> .0
is suitable condition of the	Glycol		WC Method		NEG	NEG	NEG
condition of the				1			
	WEAR METALS		method	limit/base	current	history1	history2
		opm	ASTM D5185m	>100	24	18	22
		opm	ASTM D5185m		2	<1	<1
		opm	ASTM D5185m	>4	<1	0	0
		opm	ASTM D5185m		<1	0	0
	Silver	opm		>3	0	0	0
	Aluminum	opm	ASTM D5185m	>20	2	1	2
	Lead	opm	ASTM D5185m	>40	15	13	23
	Copper	opm	ASTM D5185m	>330	3	2	3
	Tin p	opm	ASTM D5185m	>15	2	<1	1
	Vanadium	opm	ASTM D5185m		0	0	0
	Cadmium	opm	ASTM D5185m		<1	0	0
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	opm	ASTM D5185m	0	3	7	14
	Barium	opm	ASTM D5185m	0	44	0	0
	Molybdenum	opm	ASTM D5185m	60	63	68	67
	Manganese	opm	ASTM D5185m	0	1	<1	<1
	Magnesium	opm	ASTM D5185m	1010	944	988	855
		opm	ASTM D5185m	1070	1119	1351	1337
		opm	ASTM D5185m	1150	1011	1086	981
		opm	ASTM D5185m	1270	1268	1367	1177
		opm	ASTM D5185m		3296	3832	3489
	CONTAMINANT	S _	method	limit/base	current	history1	history2
	Silicon	opm	ASTM D5185m	>25	4	3	3
	-	opm	ASTM D5185m		12	11	10
		opm	ASTM D5185m	>20	5	2	0
	INFRA-RED		method	limit/base		history1	history2
		%	*ASTM D7844	>3	0.3	0.2	0.2
		Abs/cm	*ASTM D7624		11.5	12.9	12.9
		Abs/.1mm	*ASTM D7024		24.3	26.9	28.4
	FLUID DEGRADA			limit/base	current	history1	history2
					22.9		31.0
			*ASTM D7414			28.1	
	Base Number (BN)	ng KOH/g	ASTIVI D2896	9.8	6.9	6.4	4.9

# Machine Id 10160

Component Diesel Engine

## PETRO CANADA DURON SHP 15W40 (32 QTS)

#### DIAGNOSIS

#### Recommendation

Resample at the next service inte

#### Wear

All component wear rates are not

#### Contamination

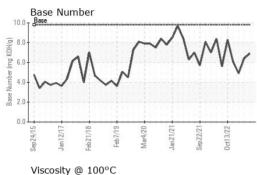
There is no indication of any cont oil.

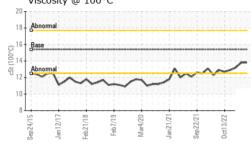
#### Fluid Condition

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

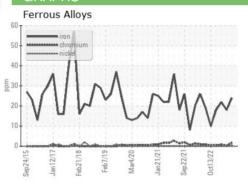


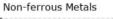
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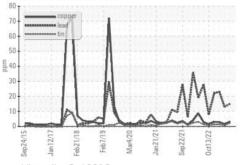


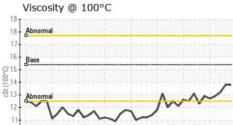


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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	13.2
GRAPHS						









Mar4/70

Received

Diagnosed

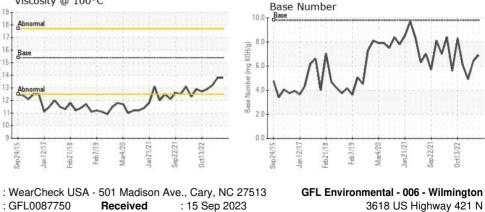
Diagnostician

Sep22/21

: 18 Sep 2023

: Wes Davis

Jan21/21



3618 US Highway 421 N Wilmington, NC US 28401 Contact: Eric Wood eric.wood@gflenv.com T: (717)723-1956 F: (910)762-6880



10

9

Unique Number : 10648523

Laboratory

Sample No.

Lab Number

Sep24/15

Jan 12/17

: GFL0087750

: 05952564

Feb21/18

Feb7/19