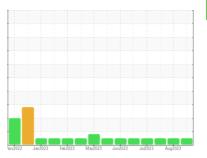


# **OIL ANALYSIS REPORT**

SAMPLE INFORMATION method

Sample Rating Trend





NORMAL

Fluid PETRO CANADA DURON SHP 15W40 (--- GAL)

## DIAGNOSIS

Machine Id 413024 Component Diesel Engine

#### 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.

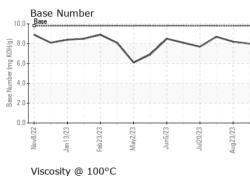
### Fluid Condition

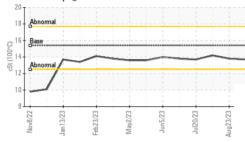
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORM		method	limit/base	current	history i	nistory2
Sample Number		Client Info		GFL0090950	GFL0091015	GFL0082696
Sample Date		Client Info		14 Sep 2023	23 Aug 2023	31 Jul 2023
Machine Age	hrs	Client Info		2332	2167	2015
Oil Age	hrs	Client Info		165	152	35
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
-		ine ette e el	line it /le e e e			
CONTAMINATI	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	6	3	2
Chromium	ppm	ASTM D5185m	>20	<1	<1	0
Nickel	ppm	ASTM D5185m	>4	1	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	3	<1	1
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	7	8	5
Tin	ppm	ASTM D5185m	>15	<1	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	3	0	6
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	64	64	69
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	954	943	1030
Calcium	ppm	ASTM D5185m	1070	1044	1013	1095
Phosphorus	ppm	ASTM D5185m	1150	1027	1014	1109
Zinc	ppm	ASTM D5185m	1270	1267	1243	1339
Sulfur	ppm	ASTM D5185m	2060	3592	3623	3932
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	3	3
Sodium	ppm	ASTM D5185m		4	2	<1
Potassium	ppm	ASTM D5185m	>20	9	4	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.1	0.1
	Abs/cm	*ASTM D7624	>20	6.9	6.1	4.9
Nitration		*AOTH DEALE	. 20		18.6	17.7
Nitration Sulfation	Abs/.1mm	*ASTM D7415	>30	18.7	10.0	17.7
		^ASIM D/415 method	>30 limit/base	current	history1	history2
Sulfation						



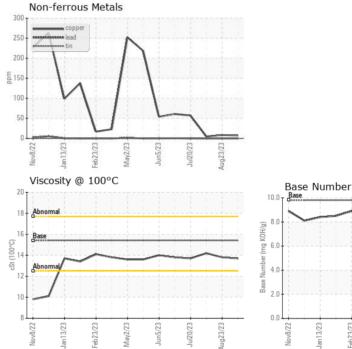
# **OIL ANALYSIS REPORT**

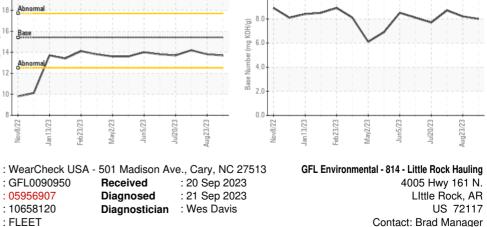




VISUAL		method				history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	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	13.7	13.8	14.2
GRAPHS						

Ferrous Alloys 41 35 30 25 H 20 15 10 5 0. an 13/23 un5/23 -47217: CICINEW





Test Package : FLEET Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

: GFL0090950

: 05956907

\* - 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

: 20 Sep 2023

: 21 Sep 2023

Laboratory Sample No.

Lab Number

Unique Number : 10658120

Submitted By: Nicole Walls Page 2 of 2