

# **OIL ANALYSIS REPORT**



NORMAL



Machine Id 10623 Component

**Diesel Engine** 

PETRO CANADA DURON SHP 15W40 (13 GAL)

## DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the

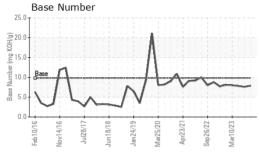
### **Fluid Condition**

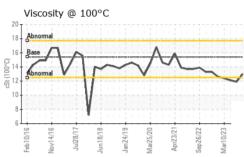
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SZOIG NovZOIG JuZOIT JunZOIG JanZOIG MarZOZO AprZOZ SapZOZZ MarZOZ						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0086150	GFL0076681	GFL0076732
Sample Date		Client Info		15 Jul 2023	24 May 2023	30 Mar 2023
Machine Age	hrs	Client Info		18222	17730	17757
Oil Age	hrs	Client Info		965	473	143
Oil Changed	0	Client Info		Not Changd	Changed	Changed
Sample Status				NORMAL	ATTENTION	ATTENTION
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<u>^</u> 2.5
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>75	7	6	4
Chromium	ppm	ASTM D5185m	>5	<1	<1	0
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>15	2	<1	0
Lead	ppm	ASTM D5185m	>25	0	0	0
Copper	ppm	ASTM D5185m	>100	<1	<1	<1
Tin	ppm	ASTM D5185m	>4	0	0	0
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	0	16	27
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	60	67	57
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	825	810	688
Calcium	ppm	ASTM D5185m	1070	1090	1159	993
Phosphorus	ppm	ASTM D5185m	1150	942	1024	830
Zinc	ppm	ASTM D5185m	1270	1173	1209	1054
Sulfur	ppm	ASTM D5185m	2060	3458	3270	2938
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	3	4
Sodium	ppm	ASTM D5185m		49	11	3
Potassium	ppm	ASTM D5185m	>20	2	1	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.4	0.3	0.2
Nitration	Abs/cm	*ASTM D7624	>20	6.9	6.7	6.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.1	17.8	17.2
FLUID DEGRA	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.9	12.6	11.9
Base Number (BN)	mg KOH/g		9.8	7.9	7.6	7.8
	39			-		



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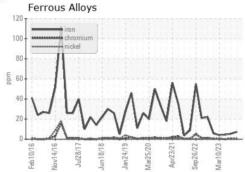


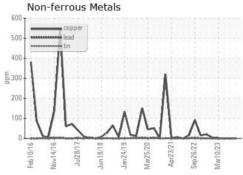


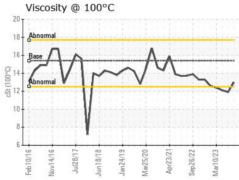
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

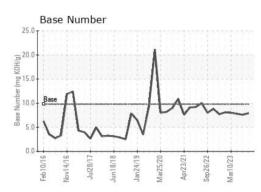
L LOID PROPI	ERITES	method			riistory i	Historyz
Visc @ 100°C	cSt	ASTM D445	15.4	13.0	<u>11.9</u>	<u>▲</u> 12.1

#### **GRAPHS**













Laboratory Sample No. Lab Number

Unique Number : 10562398 Test Package : FLEET

: GFL0086150 : 05901042

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 18 Jul 2023

Diagnosed : 18 Jul 2023 Diagnostician : Wes Davis

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)

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