

# **OIL ANALYSIS REPORT**

#### Sample Rating Trend



## Machine Id 912091

Component Diesel Engine

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

### 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.

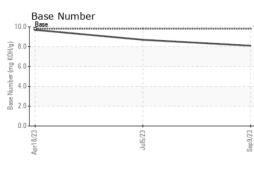
#### Fluid Condition

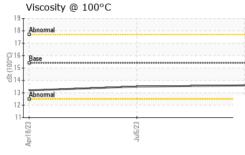
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

IR)		Ap	12023	Jul2023 Sep20	23	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0090536	GFL0083981	GFL0078710
Sample Date		Client Info		09 Sep 2023	05 Jul 2023	18 Apr 2023
Machine Age	hrs	Client Info		1742	1166	574
Oil Age	hrs	Client Info		585	592	574
Oil Changed		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	12	27	94
Chromium	ppm	ASTM D5185m	>20	1	1	3
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	2	8
Lead	ppm	ASTM D5185m	>40	<1	<1	0
Copper	ppm	ASTM D5185m	>330	1	2	7
Tin	ppm	ASTM D5185m	>15	<1	<1	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	1	4	9
Barium	ppm	ASTM D5185m	0	0	0	1
Molybdenum	ppm	ASTM D5185m	60	60	64	63
Manganese	ppm	ASTM D5185m	0	<1	<1	3
Magnesium	ppm	ASTM D5185m	1010	970	888	946
Calcium	ppm	ASTM D5185m	1070	1124	1095	1134
Phosphorus	ppm	ASTM D5185m	1150	1007	988	982
Zinc	ppm	ASTM D5185m	1270	1242	1183	1258
Sulfur	ppm	ASTM D5185m	2060	3535	2816	3356
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	4	11
Sodium	ppm	ASTM D5185m		4	<1	3
Potassium	ppm	ASTM D5185m	>20	8	4	13
INFRA-RED		method	limit/base	current	history1	history2
	0/	*ASTM D7844	>3	0.3	0.5	0.8
Soot %	%			74	8.2	7.6
	% Abs/cm	*ASTM D7624	>20	7.1	0.2	110
Nitration		*ASTM D7624 *ASTM D7415		7.1 18.5	19.8	20.6
Nitration	Abs/cm Abs/.1mm	*ASTM D7415				
Soot % Nitration Sulfation FLUID DEGRAI Oxidation	Abs/cm Abs/.1mm	*ASTM D7415	>30 limit/base	18.5	19.8	20.6

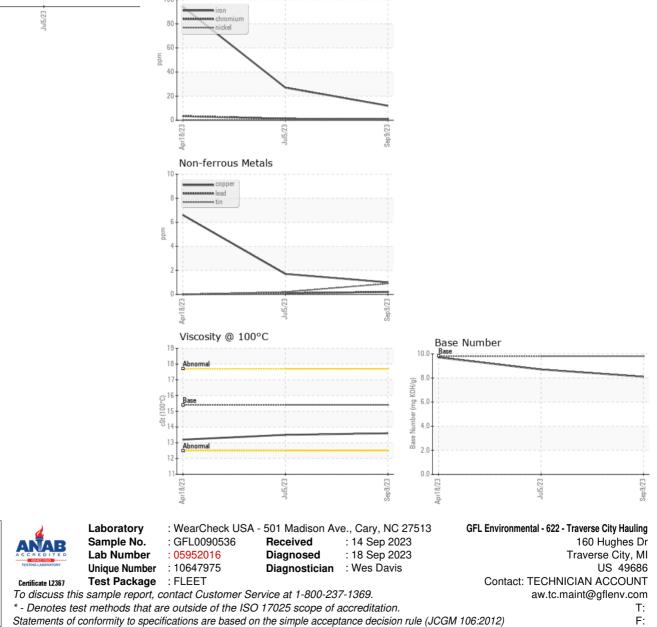


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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar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



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Submitted By: TECHNICIAN ACCOUNT