

### **OIL ANALYSIS REPORT**



# Machine Id 829100

#### Component Diesel Engine

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

#### DIAGNOSIS

#### 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.

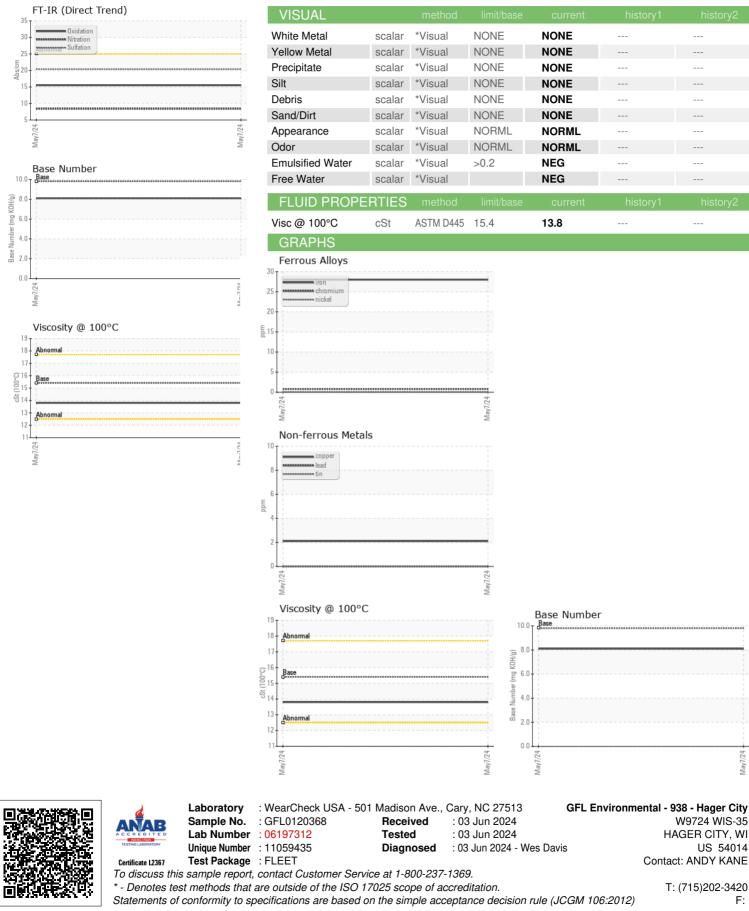
#### Fluid Condition

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

SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0120368		
Sample Date		Client Info		07 May 2024		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>110	28		
Chromium	ppm	ASTM D5185m	>4	<1		
Nickel	ppm	ASTM D5185m	>2	0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm	ASTM D5185m	>25	6		
Lead	ppm	ASTM D5185m	>45	0		
Copper	ppm	ASTM D5185m	>85	2		
Tin	ppm	ASTM D5185m	>4	0		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0		
Barium	ppm	ASTM D5185m	0	0		
Molybdenum	ppm	ASTM D5185m	60	59		
Manganese	ppm	ASTM D5185m	0	<1		
Magnesium	ppm	ASTM D5185m	1010	949		
Calcium	ppm	ASTM D5185m	1070	1161		
Phosphorus	ppm	ASTM D5185m	1150	1050		
Zinc	ppm	ASTM D5185m	1270	1238		
Sulfur	ppm	ASTM D5185m	2060	3392		
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm		>30	5		
Sodium	ppm	ASTM D5185m		8		
Potassium	ppm	ASTM D5185m	>20	2		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1		
Nitration	Abs/cm	*ASTM D7624	>20	8.4		
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.4		
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
	Abo/1mm	*ASTM D7414	>25	15.5		
Oxidation	Abs/.1mm		220	15.5		
Oxidation Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.1		



## **OIL ANALYSIS REPORT**



Report Id: GFL938 [WUSCAR] 06197312 (Generated: 06/03/2024 18:37:18) Rev: 1

Submitted By: See also GFL904,A,B,C, 927, 938 - Andy Kane