

## **OIL ANALYSIS REPORT**



Machine Id

## 251004

#### Component Gasoline Engine Fluid PETRO CANADA DURON SHP 15W40 (--- GAL)

### DIAGNOSIS

#### A Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

Fuel content negligible. Elemental level of silicon (Si) above normal indicating ingress of seal material.

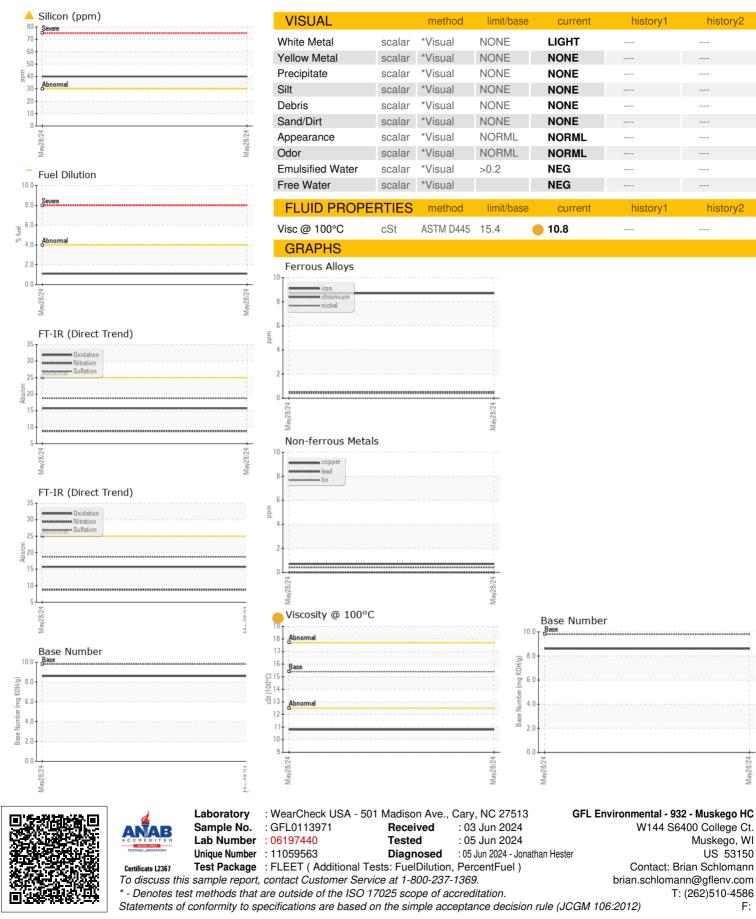
#### Fluid Condition

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0113971		
Sample Date		Client Info		28 May 2024		
Machine Age	mls	Client Info		113885		
Oil Age	mls	Client Info		113885		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>150	9		
Chromium	ppm	ASTM D5185m	>20	<1		
Nickel	ppm	ASTM D5185m	>5	<1		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm	ASTM D5185m	>40	1		
Lead	ppm	ASTM D5185m	>50	0		
Copper	ppm	ASTM D5185m	>155	<1		
Tin	ppm	ASTM D5185m	>10	<1		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		<1		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0		
Barium	ppm	ASTM D5185m	0	0		
Molybdenum	ppm	ASTM D5185m	60	60		
Manganese	ppm	ASTM D5185m	0	0		
Magnesium	ppm	ASTM D5185m	1010	924		
Calcium	ppm	ASTM D5185m	1070	1019		
Phosphorus	ppm	ASTM D5185m	1150	1044		
Zinc	ppm	ASTM D5185m	1270	1257		
Sulfur	ppm	ASTM D5185m	2060	3240		
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	<b>40</b>		
Sodium	ppm	ASTM D5185m	>400	<1		
Potassium	ppm	ASTM D5185m	>20	2		
Fuel	%	ASTM D3524	>4.0	1.1		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1		
Nitration	Abs/cm	*ASTM D7624	>20	8.8		
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.7		
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.7		
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.6		



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