

# **OIL ANALYSIS REPORT**









Machine Id
714017
Component
Diesel Engine
Fluid
PETRO CANADA DURON

## **DIAGNOSIS**

### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

#### Wear

Metal levels are typical for a new component breaking in.

## Contamination

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

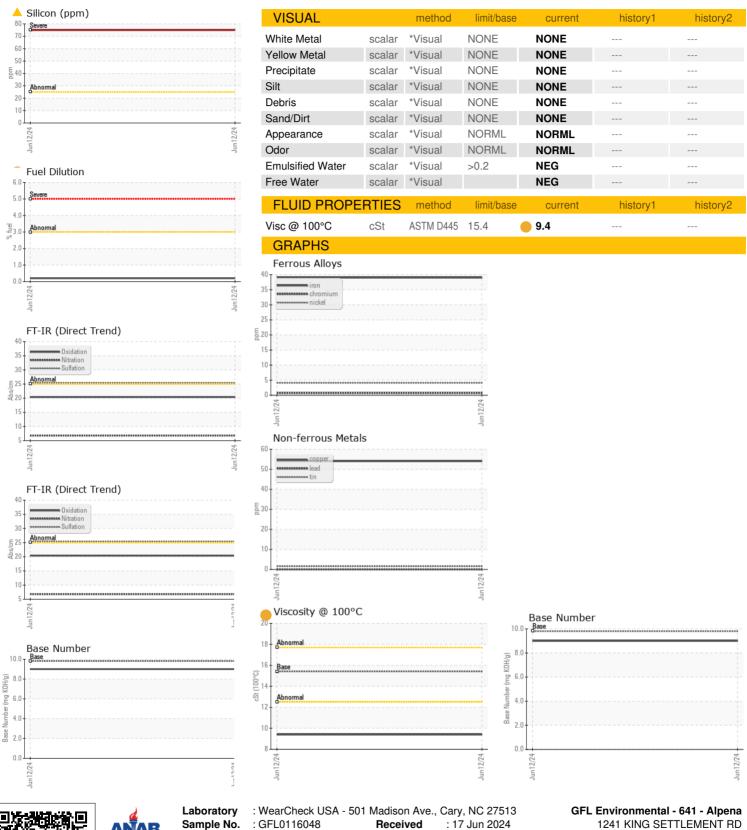
### Fluid Condition

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

N SHP 15W40 (	- GAL)			Jun2024		
SAMPLE INFOR	ΜΔΤΙΩΝ	method	limit/base	current	history1	history2
	VIATION		III III Dasc			•
Sample Number		Client Info		GFL0116048		
Sample Date	hue	Client Info		12 Jun 2024		
Machine Age	hrs	Client Info		161		
Oil Age	hrs	Client Info		N/A		
Oil Changed		Ciletit IIIIO		ABNORMAL		
Sample Status				ADNONWAL		
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	>120	39		
Chromium	ppm	ASTM D5185m	>20	<1		
Nickel	ppm	ASTM D5185m	>5	4		
Titanium	ppm	ASTM D5185m	>2	0		
Silver	ppm	ASTM D5185m	>2	1		
Aluminum	ppm	ASTM D5185m	>20	8		
Lead	ppm	ASTM D5185m	>40	0		
Copper	ppm	ASTM D5185m	>330	54		
Tin	ppm	ASTM D5185m	>15	2		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	359		
Barium	ppm	ASTM D5185m	0	0		
Molybdenum	ppm	ASTM D5185m	60	116		
Manganese	ppm	ASTM D5185m	0	4		
Magnesium	ppm	ASTM D5185m	1010	655		
Calcium	ppm	ASTM D5185m	1070	1503		
Phosphorus	ppm	ASTM D5185m	1150	747		
Zinc	ppm	ASTM D5185m	1270	845		
Sulfur	ppm	ASTM D5185m	2060	2916		
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<u> </u>		
Sodium	ppm	ASTM D5185m		6		
Potassium	ppm	ASTM D5185m	>20	20		
Fuel	%	ASTM D3524	>3.0	0.2		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.1		
Nitration	Abs/cm	*ASTM D7624	>20	6.8		
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.4		
FLUID DEGRAD	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.4		
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	9.0		



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Certificate 12367

Sample No.

: GFL0116048 Lab Number : 06211349

Unique Number : 11084213

Received : 17 Jun 2024 **Tested** 

: 19 Jun 2024

: 19 Jun 2024 - Don Baldridge Diagnosed Test Package: FLEET (Additional Tests: FuelDilution, PercentFuel)

To discuss this sample report, contact Customer Service at 1-800-237-1369.  $^st$  - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

US 49707 Contact: DYLAN TOLAN dylan.tolan@gflenv.com

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Submitted By: GFL463 and GFL641 - DYLAN TOLAN

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