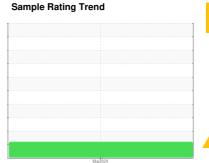


# **OIL ANALYSIS REPORT**









Machine Id 814008 Component **Diesel Engine** 

PETRO CANADA DURO

## **DIAGNOSIS**

## Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

## Wear

Exhaust valve wear is indicated.

### Contamination

Tests indicate that there is no fuel present in the oil. There is no indication of any contamination in the

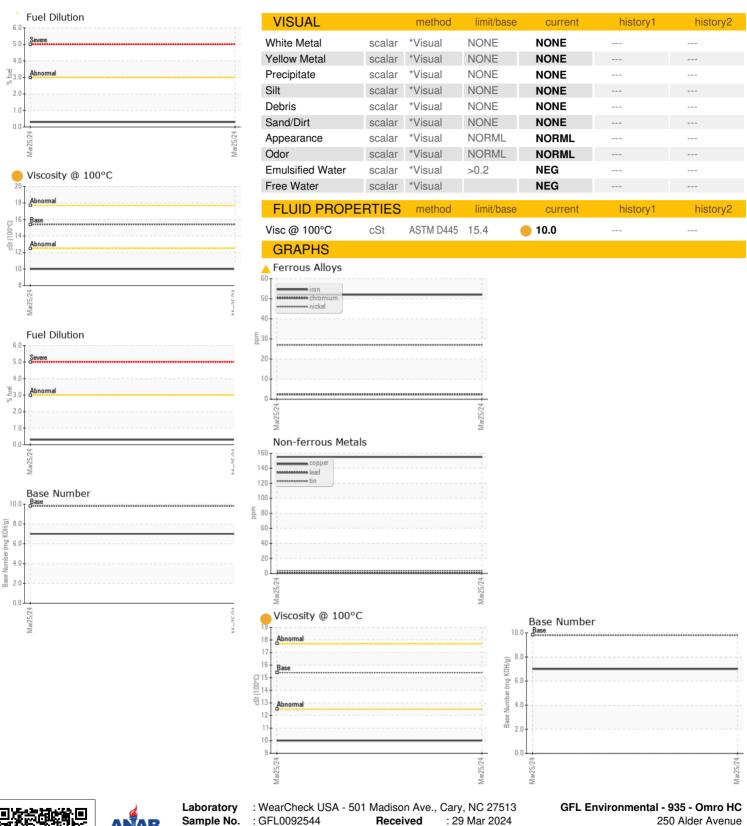
## Fluid Condition

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

N OUD 45W40 /	OTC)					
N SHP 15W40 (-	Q15)			Mar2024		
SAMPLE INFOR	<b>MATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0092544		
Sample Date		Client Info		25 Mar 2024		
⁄Iachine Age	hrs	Client Info		596		
Dil Age	hrs	Client Info		596		
Dil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
CONTAMINAT	ION	method	limit/base	current	history1	history2
Vater		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METAL	S	method	limit/base	current	history1	history2
on	ppm	ASTM D5185m	>120	52		
hromium	ppm	ASTM D5185m	>20	2		
lickel	ppm	ASTM D5185m	>5	<u>^</u> 27		
itanium	ppm	ASTM D5185m		<1		
Silver		ASTM D5185m	>2	<1		
Muminum	ppm	ASTM D5185m		7		
	ppm			-		
ead.	ppm	ASTM D5185m	>40	<1		
Copper 	ppm	ASTM D5185m		155		
in 	ppm	ASTM D5185m	>15	4		
/anadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		<1		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	204		
Barium	ppm	ASTM D5185m	0	1		
Nolybdenum	ppm	ASTM D5185m	60	128		
Manganese	ppm	ASTM D5185m	0	5		
/lagnesium	ppm	ASTM D5185m	1010	675		
Calcium	ppm	ASTM D5185m	1070	1417		
hosphorus	ppm	ASTM D5185m	1150	695		
Zinc	ppm	ASTM D5185m	1270	834		
Sulfur	ppm	ASTM D5185m	2060	2196		
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	69		
Sodium	ppm	ASTM D5185m		7		
Potassium	ppm	ASTM D5185m	>20	8		
uel	%	ASTM D3524	>3.0	0.3		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.7		
Nitration	Abs/cm	*ASTM D7624	>20	10.9		
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.8		
FLUID DEGRAI	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	23.2		
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.0		
Jase Mullibel (DIN)	ilig KOH/g	70 HVI D2030	5.0	7.0		



# **OIL ANALYSIS REPORT**







Sample No.

: GFL0092544 Lab Number : 06133886 Unique Number: 10953351

**Tested** Diagnosed Test Package: FLEET (Additional Tests: FuelDilution, PercentFuel)

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.

T: (608)219-0288 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

: 03 Apr 2024

: 03 Apr 2024 - Sean Felton

Omro, WI

US 54963

Contact: Tim Kieffer tim.kieffer@gflenv.com