

# **OIL ANALYSIS REPORT**

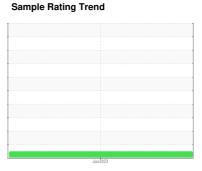
## **NORMAL**



Machine Id **WL0098-492** 

Component **Diesel Engine** 

PETRO CANADA DURO





## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor. ( Customer Sample Comment: Engine oil and filter change)

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil.

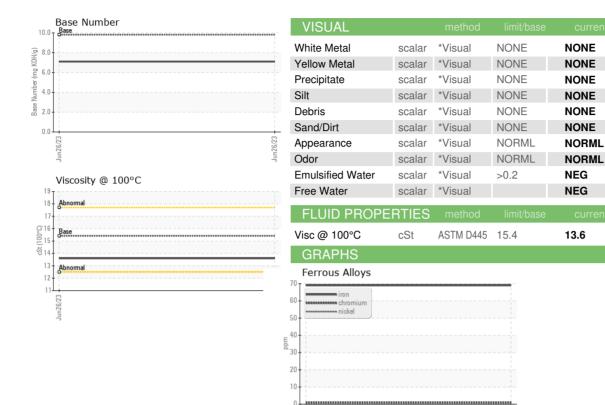
### **Fluid Condition**

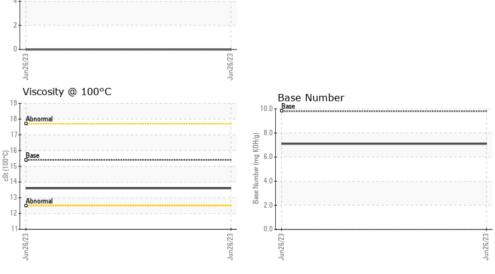
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

N SHP 15W40 (-	GAL)			Jun 2023		
SAMPLE INFOF	RMATION	method	limit/base	current	history 1	history 2
Sample Number		Client Info		GFL0077523		
Sample Date		Client Info				
•	la u a			26 Jun 2023		
Machine Age	hrs	Client Info		11950		
Oil Age	hrs	Client Info		11950		
Oil Changed		Client Info		Changed NORMAL		
Sample Status	TION!					
CONTAMINAT	ION	method	limit/base	current	history 1	history 2
Fuel		WC Method	>5	<1.0		
Glycol		WC Method		NEG		
WEAR METAL	_S	method	limit/base	current	history 1	history 2
ron	ppm	ASTM D5185m	>100	69		
Chromium	ppm	ASTM D5185m	>20	<1		
Nickel	ppm	ASTM D5185m	>2	0		
Titanium	ppm	ASTM D5185m	>2	0		
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm	ASTM D5185m	>25	13		
_ead	ppm	ASTM D5185m	>40	0		
Copper	ppm		>330	0		
Fin	ppm	ASTM D5185m	>15	0		
/anadium	ppm	ASTM D5185m	>10	0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES	ррш	method	limit/base	current	hiotom, 1	history 2
					history 1	
Boron Baritura	ppm	ASTM D5185m	0	3		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m	60	62		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m	1010	961		
Calcium	ppm	ASTM D5185m	1070	1105		
Phosphorus	ppm	ASTM D5185m	1150	1029		
Zinc	ppm	ASTM D5185m	1270	1280		
Sulfur	ppm	ASTM D5185m	2060	3532		
CONTAMINAN	NTS	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>25	5		
Sodium	ppm	ASTM D5185m		1		
30010111	ppiii			•		
	ppm	ASTM D5185m	>20	<1		
			>20 limit/base		history 1	
Potassium INFRA-RED		ASTM D5185m		<1		
Potassium INFRA-RED Soot %	ppm	ASTM D5185m method	limit/base	<1 current	history 1	history 2
Potassium INFRA-RED Soot % Nitration	ppm %	ASTM D5185m method *ASTM D7844	limit/base	<1 current 0.3	history 1	history 2
Potassium INFRA-RED Soot % Nitration	% Abs/cm Abs/.1mm	ASTM D5185m  method  *ASTM D7844  *ASTM D7624  *ASTM D7415	limit/base >3 >20	<1 current 0.3 8.9	history 1	history 2
Potassium INFRA-RED Soot % Nitration Sulfation	% Abs/cm Abs/.1mm	ASTM D5185m  method  *ASTM D7844  *ASTM D7624  *ASTM D7415	limit/base >3 >20 >30	<1 current 0.3 8.9 19.1	history 1  	history 2



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Certificate L2367

Laboratory Sample No.

Lab Number Unique Number Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0077523 : 05886087 : 10536570

Non-ferrous Metals

Received Diagnosed Diagnostician

: 28 Jun 2023 : 02 Jul 2023 : Don Baldridge GFL Environmental - 625 - Harrison Hauling 4102 Industrial Pkwy Harrison, MI

US 48625 Contact: Glenda Standen

gstanden@gflenv.com T:

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

Report Id: GFL625 [WUSCAR] 05886087 (Generated: 07/02/2023 13:38:00) Rev: 1

Submitted By: also GFL632 and GFL638 - Glenda Standen

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