

OIL ANALYSIS REPORT



DIRT





Machine Id 914056 Component

Diesel Engine

Fluid
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

All component wear rates are normal.

Contamination

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

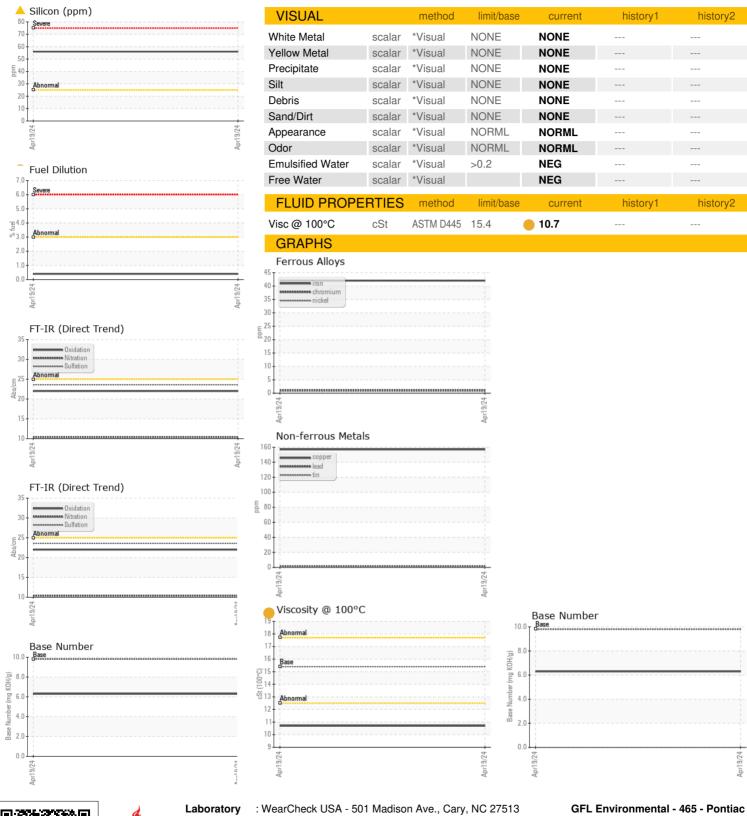
Fluid Condition

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

N SHP 15W40 (GAL)			Apr2024		
SAMPLE INFOR	ĺ	method	limit/base	ourrent.	hiotonut	hiotom ()
	IVIA I ION		IIIIIIVDase	current	history1	history2
Sample Number		Client Info		GFL0116896		
Sample Date		Client Info		19 Apr 2024		
Machine Age	hrs	Client Info		508		
Oil Age	hrs	Client Info		600		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
CONTAMINAT	ION	method	limit/base	current	history1	history2
Nater		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METAL	.S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>90	42		
Chromium	ppm	ASTM D5185m	>20	1		
Nickel	ppm	ASTM D5185m	>2	<1		
Гitanium	ppm	ASTM D5185m	>2	0		
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm	ASTM D5185m	>20	4		
_ead	ppm	ASTM D5185m	>40	1		
Copper	ppm	ASTM D5185m	>330	157		
Fin	ppm		>15	2		
/anadium	ppm	ASTM D5185m	>10	<u>-</u> <1		
Cadmium	ppm	ASTM D5185m		0		
	рріп		1114-0			la la taux o
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	111		
Barium	ppm	ASTM D5185m	0	<1		
Molybdenum	ppm	ASTM D5185m	60	103		
Manganese	ppm	ASTM D5185m	0	4		
Magnesium	ppm	ASTM D5185m	1010	737		
Calcium	ppm	ASTM D5185m	1070	1299		
Phosphorus	ppm	ASTM D5185m	1150	780		
Zinc	ppm	ASTM D5185m	1270	952		
Sulfur	ppm	ASTM D5185m	2060	2594		
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	▲ 56		
Sodium	ppm	ASTM D5185m		3		
Potassium	ppm	ASTM D5185m	>20	8		
-uel	%	ASTM D3524	>3.0	0.4		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.5		
Nitration	Abs/cm	*ASTM D7624	>20	10.4		
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.6		
FLUID DEGRAI	DATION	method	limit/base	current	history1	history2
FLUID DEGRAI Oxidation Base Number (BN)	Abs/.1mm mg KOH/g	method *ASTM D7414 ASTM D2896	>25	22.0 6.3	history1	history2



OIL ANALYSIS REPORT





Certificate 12367

Sample No.

: GFL0116896 Lab Number : 06157507 Unique Number : 10992930

Received **Tested** Diagnosed

: 23 Apr 2024 : 26 Apr 2024 **Test Package**: FLEET (Additional Tests: FuelDilution, PercentFuel)

: 26 Apr 2024 - Don Baldridge

Pontiac, MI US 48340 Contact: Ricky Matthews rickymathews@gflenv.com T: (586)825-9514

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

Report Id: GFL465 [WUSCAR] 06157507 (Generated: 04/26/2024 09:38:10) Rev: 1

888 Baldwin