

OIL ANALYSIS REPORT

Sample Rating Trend

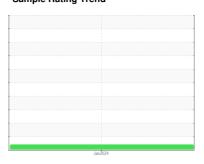
VISCOSITY



Machine Id 214010 Component

Diesel Engine

PETRO CANADA DUR





DIAGNOSIS

▲ Recommendation

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

Metal levels are typical for a new component breaking in.

Contamination

Fuel content negligible. There is no indication of any contamination in the oil.

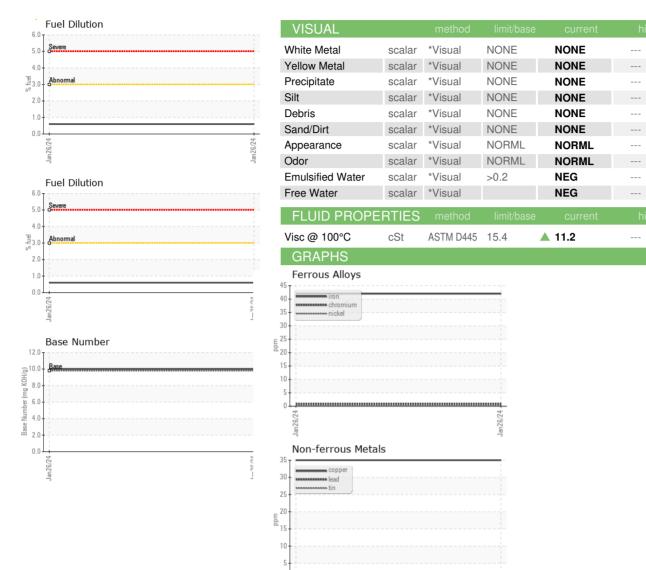
▲ Fluid Condition

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)			Jan 2024		
SAMPLE INFOF	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0100443		
Sample Date		Client Info		26 Jan 2024		
Machine Age	hrs	Client Info		133		
Oil Age	hrs	Client Info		133		
Oil Changed	0	Client Info		N/A		
Sample Status				ATTENTION		
CONTAMINAT	TION	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	42		
Chromium	ppm	ASTM D5185m	>20	<1		
Nickel	ppm	ASTM D5185m	>5	<1		
Titanium	ppm	ASTM D5185m	>2	<1		
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm		>20	5		
Lead	ppm	ASTM D5185m	>40	1		
Copper	ppm	ASTM D5185m		35		
Tin	ppm	ASTM D5185m	>15	<1		
Vanadium	ppm	ASTM D5185m	710	<1		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	58		
Barium	ppm	ASTM D5185m	0	5		
Molybdenum	ppm	ASTM D5185m	60	42		
Manganese	ppm	ASTM D5185m	0	5		
Magnesium	ppm	ASTM D5185m	1010	557		
Calcium	ppm	ASTM D5185m	1070	1507		
Phosphorus	ppm	ASTM D5185m	1150	752		
Zinc	ppm	ASTM D5185m	1270	915		
Sulfur	ppm	ASTM D5185m	2060	2462		
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	20		
Sodium	ppm	ASTM D5185m		6		
Potassium	ppm	ASTM D5185m	>20	7		
Fuel	%	ASTM D3524	>3.0	0.6		
			12	ourront.	111	history2
INFRA-RED		method	limit/base	current	history1	History
INFRA-RED Soot %	%	*ASTM D7844	>4	0.1	history1 	
	% Abs/cm				,	,
Soot %		*ASTM D7844	>4	0.1		
Soot % Nitration	Abs/.1mm	*ASTM D7844 *ASTM D7624 *ASTM D7415	>4 >20	0.1 6.3		
Soot % Nitration Sulfation	Abs/.1mm	*ASTM D7844 *ASTM D7624 *ASTM D7415	>4 >20 >30	0.1 6.3 21.6		
Soot % Nitration Sulfation FLUID DEGRA	Abs/cm Abs/.1mm	*ASTM D7844 *ASTM D7624 *ASTM D7415 method	>4 >20 >30 limit/base	0.1 6.3 21.6 current	 history1	 history2



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Laboratory Sample No.

Lab Number : 06081058

cSt (100°C)

10

Unique Number : 10863149

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0100443 Received : 06 Feb 2024 : 08 Feb 2024

Tested Diagnosed

: 08 Feb 2024 - Jonathan Hester **Test Package**: FLEET (Additional Tests: FuelDilution, PercentFuel)

GFL Environmental - 868 - Childersburg Fines Hauling (Alpine)

13737 Plant Rd Childersburg, AL US 35044

Contact: JONATHAN WILLIAMS jonathan.williams@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.

Viscosity @ 100°C

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

Base Number

12.

0.0

(mg K0H/g 8 (

F: