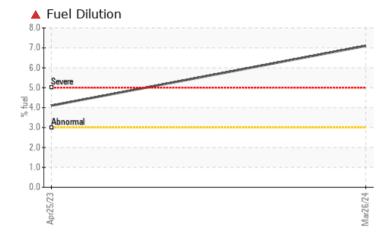


COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you check the fuel injection system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS							
Sample Status				SEVERE	ABNORMAL	SEVERE	
Fuel	%	ASTM D3524	>3.0	A 7.1	4 .1	<1.0	

Customer Id: GFL904A Sample No.: GFL0108443 Lab Number: 06136101 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data: Wes Davis +1 905-569-8600 x223 wesd@wearcheck.ca

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED ACTIONS						
Action	Status	Date	Done By	Description		
Change Fluid			?	We recommend that you drain the oil from the component if this has n already been done.		
Resample			?	We recommend an early resample to monitor this condition.		
Check Fuel/injector System			?	We advise that you check the fuel injection system.		

HISTORICAL DIAGNOSIS



25 Apr 2023 Diag: Wes Davis

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.All component wear rates are normal. There is a moderate amount of fuel present in the oil. Light concentration of carbon/soot present in the oil. Tests confirm the presence of fuel in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.



not



SOOT We advise of samplin

16 Nov 2022 Diag: Jonathan Hester

We advise that you check for faulty combustion, plugged air filters, or aftercoolers. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. NOTE: High solids (carbon/soot) in the sample have limited the accuracy of Infra-Red data including Total Base Number (TBN) value.All component wear rates are normal. There is an abnormal amount of solids and carbon present in the oil. The oil viscosity is higher than normal. The BN level is low.





OIL ANALYSIS REPORT

Sample Rating Trend



(MC11906) 824019-254



Component Diesel Engine Fluid PETRO CANADA DURON SHP 15W40 (--- LTR)

DIAGNOSIS

Recommendation

We advise that you check the fuel injection system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

Area

Wear

All component wear rates are normal.

Contamination

There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0108443	GFL0060343	GFL005572
Sample Date		Client Info		26 Mar 2024	25 Apr 2023	16 Nov 2022
Machine Age	hrs	Client Info		0	7715	500
Oil Age	hrs	Client Info		0	500	500
Oil Changed		Client Info		N/A	Changed	Changed
Sample Status				SEVERE	ABNORMAL	SEVERE
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	.S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	22	41	63
Chromium	ppm	ASTM D5185m	>20	<1	1	2
Nickel	ppm	ASTM D5185m	>5	0	0	1
Titanium	ppm	ASTM D5185m	>2	0	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	5	6	8
Lead	ppm	ASTM D5185m	>40	<1	1	6
Copper	ppm	ASTM D5185m	>330	<1	<1	5
Tin	ppm	ASTM D5185m	>15	<1	<1	2
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	4	15	10
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	58	67	57
Manganese	ppm	ASTM D5185m	0	<1	<1	1
Magnesium	ppm	ASTM D5185m	1010	906	858	666
Calcium	ppm	ASTM D5185m	1070	1065	1080	1403
Phosphorus	ppm	ASTM D5185m	1150	1009	937	911
Zinc	ppm	ASTM D5185m	1270	1191	1140	1169
Sulfur	ppm		2060	3232	3269	3365
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	5	7
Sodium	ppm	ASTM D5185m		<1	<1	2
Potassium	ppm	ASTM D5185m	>20	<1	1	0
	%	ASTM D3524	>3.0	A 7.1	4 .1	<1.0
Fuel			limit/base	current	history1	history2
INFRA-RED		method	iiiiii/base			
INFRA-RED	%	*ASTM D7844	>4	2.2	4	▲ 8
INFRA-RED Soot %	% Abs/cm		>4	2.2 8.9	▲ 4 10.3	▲ 8 19.5
Fuel INFRA-RED Soot % Nitration Sulfation		*ASTM D7844	>4 >20			
INFRA-RED Soot % Nitration	Abs/cm Abs/.1mm	*ASTM D7844 *ASTM D7624 *ASTM D7415	>4 >20	8.9	10.3	19.5 36.4
INFRA-RED Soot % Nitration Sulfation	Abs/cm Abs/.1mm	*ASTM D7844 *ASTM D7624 *ASTM D7415	>4 >20 >30	8.9 21.0	10.3 26.0	19.5



Fuel Dilution

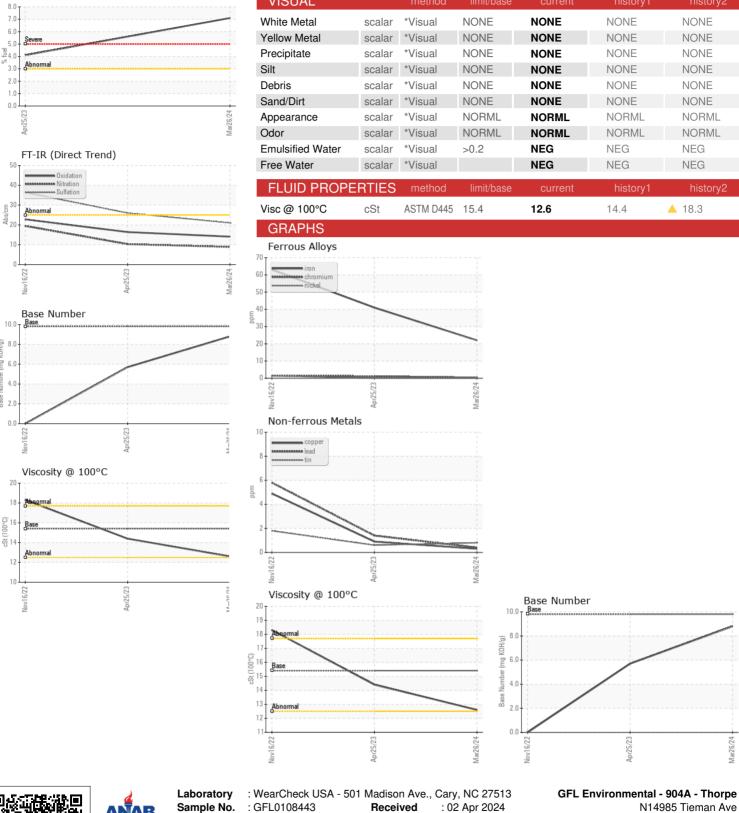
(mg KOH/g)

Imber

Base

OIL ANALYSIS REPORT

VISUAL



Tested

Diagnosed

: 05 Apr 2024

: 05 Apr 2024 - Wes Davis

N14985 Tieman Ave Thorp, WI US 54771 Contact: Andy Kane akane@gflenv.com T: (715)202-3420 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) E:

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

▲ 18.3

Report Id: GFL904A [WUSCAR] 06136101 (Generated: 04/05/2024 09:00:29) Rev: 1

Certificate 12367

Lab Number : 06136101

Unique Number : 10955566

Test Package : FLEET (Additional Tests: PercentFuel)

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Submitted By: See also GFL904,A,B,C, 927, 938 - Andy Kane