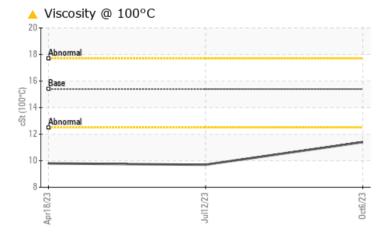


COMPONENT CONDITION SUMMARY



RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS								
Sample Status				ATTENTION	ATTENTION	ATTENTION		
Visc @ 100°C	cSt	ASTM D445	15.4	<u> </u>	9 .7	9.8		

Customer Id: GFL836 Sample No.: GFL0093719 Lab Number: 05975384 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data: Don Baldridge +1 don.b505@comcast.net

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			?	Oil and filter change at the time of sampling has been noted.		
Change Filter			?	Oil and filter change at the time of sampling has been noted.		

HISTORICAL DIAGNOSIS



12 Jul 2023 Diag: Don Baldridge

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.



18 Apr 2023 Diag: Doug Bogart

VISCOSITY



Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.Metal levels are typical for a new component breaking in. Fuel content negligible. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.





OIL ANALYSIS REPORT

Sample Rating Trend



413116 Component **Diesel Engine** Fluid

Machine Id

PETRO CANADA DURON SHP 15W40 (--- QTS)

DIAGNOSIS	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
A Recommendation	Sample Number		Client Info		GFL0093719	GFL0087732	GFL0078538
Oil and filter change at the time of sampling has	Sample Date		Client Info		06 Oct 2023	12 Jul 2023	18 Apr 2023
been noted. Resample at the next service interval	Machine Age	hrs	Client Info		1693	1131	618
to monitor.	Oil Age	hrs	Client Info		0	0	0
Wear	Oil Changed		Client Info		Changed	Changed	Changed
All component wear rates are normal.	Sample Status				ATTENTION	ATTENTION	ATTENTION
Contamination There is no indication of any contamination in the	CONTAMINAT	ION	method	limit/base	current	history1	history2
pil.	Glycol		WC Method		NEG	NEG	NEG
Fluid Condition The oil viscosity is lower than normal. The BN result	WEAR METAL	.S	method	limit/base	current	history1	history2
indicates that there is suitable alkalinity remaining in	Iron	ppm	ASTM D5185m	>120	11	14	24
he oil. Confirm oil type.	Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
	Nickel	ppm	ASTM D5185m	>5	0	0	<1
	Titanium	ppm	ASTM D5185m	>2	0	<1	<1
	Silver	ppm	ASTM D5185m	>2	1	<1	<1
	Aluminum	ppm	ASTM D5185m	>20	5	10	8
	Lead	ppm	ASTM D5185m	>40	0	2	0
	Copper	ppm	ASTM D5185m	>330	301	279	361
	Tin	ppm	ASTM D5185m		1	1	3
	Vanadium	ppm	ASTM D5185m		0	<1	0
	Cadmium	ppm	ASTM D5185m		0	0	0
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m	0	22	201	266
	Barium	ppm	ASTM D5185m	0	0	0	0
	Molybdenum	ppm	ASTM D5185m	60	62	126	117
	Manganese	ppm	ASTM D5185m	0	<1	1	4
	Magnesium	ppm	ASTM D5185m	1010	1012	729	719
	Calcium	ppm	ASTM D5185m	1070	838	1545	1503
	Phosphorus	ppm	ASTM D5185m	1150	938	706	711
	Zinc	ppm	ASTM D5185m	1270	1139	856	843
	Sulfur	ppm	ASTM D5185m	2060	2752	2835	2902
	CONTAMINAN	ITS	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>25	7	12	58
	Sodium	ppm	ASTM D5185m		4	2	4
	Potassium	ppm	ASTM D5185m	>20	13	17	20
	Fuel	%	ASTM D3524	>3.0	<1.0	<1.0	0.4
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	*ASTM D7844	>4	0.3	0.2	0.2
	Nitration	Abs/cm	*ASTM D7624		9.6	10.1	10.2
	Sulfation	Abs/.1mm	*ASTM D7415		20.5	24.9	23.9
	FLUID DEGRAI		method	limit/base	current	history1	history2
	Oxidation	Abs/.1mm	*ASTM D7414	>25	19.2	23.2	23.3
	Base Number (BN)				7.0	8.1	7.3
		ing toning		0.0		0.1	1.0



5. 4. ₽<u>3.0</u>

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Apr18/23

OIL ANALYSIS REPORT

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history1

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NONE

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NORML

NORML

history

history2

NONE

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NORML

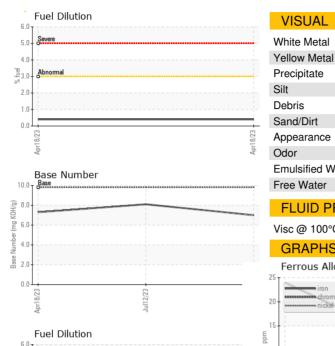
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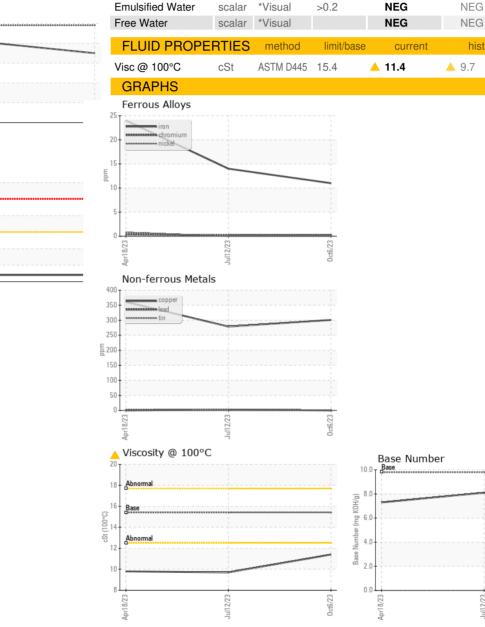
histor

NEG

NEG

9.8





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

: 11 Oct 2023

: 13 Oct 2023

Diagnostician : Don Baldridge

Received

Diagnosed

GFL Environmental - 836 - Kansas City Hauling 7801 East Truman Road Kansas City, MO US 64126 Contact: Robert Hart rhart@gflenv.com T: (580)461-1509 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F:

Jul12/23



Report Id: GFL836 [WUSCAR] 05975384 (Generated: 10/16/2023 07:58:39) Rev: 1

Certificate L2367

Laboratory

Sample No.

Lab Number

Unique Number

: GFL0093719

Test Package : FLEET (Additional Tests: FuelDilution)

: 05975384

: 10687334

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.

Contact/Location: See also GFL823, 834, 837, 840 - Robert Hart - GFL836