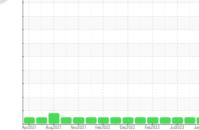


OIL ANALYSIS REPORT

Sample Rating Trend







RON SHP 15W40 (LTR)	April021 Aug2021 Nev2021 Feb2022 Dec2022 Feb2023 Jul2023 Jul2023						
	SAMPLE INFO	RMATION	method	limit/base	current	history1	history2	
	Sample Number		Client Info		GFL0103138	GFL0091938	GFL0075052	
e interval to monitor.	Sample Date		Client Info		18 Jan 2024	19 Oct 2023	24 Jul 2023	
	Machine Age	hrs	Client Info		7885	7337	6689	
e normal.	Oil Age	hrs	Client Info		548	648	549	
	Oil Changed		Client Info		Changed	Changed	Changed	
contamination in the	Sample Status				NORMAL	NORMAL	NORMAL	
	CONTAMINA	TION	method	limit/base	current	history1	history2	
here is suitable	Fuel		WC Method	>3.0	<1.0	<1.0	<1.0	
The condition of the ce.	Water		WC Method	>0.2	NEG	NEG	NEG	
	Glycol		WC Method		NEG	NEG	NEG	
	WEAR META	LS	method	limit/base	current	history1	history2	
	Iron	ppm	ASTM D5185m	>165	6	9	8	
	Chromium	ppm	ASTM D5185m	>5	<1	<1	<1	
	Nickel	ppm	ASTM D5185m	>4	0	0	0	
	Titanium	ppm	ASTM D5185m	>2	0	0	0	
	Silver	ppm	ASTM D5185m	>2	0	0	0	
	Aluminum	ppm	ASTM D5185m	>20	1	3	1	
	Lead	ppm	ASTM D5185m	>150	<1	2	<1	
	Copper	ppm	ASTM D5185m	>90	<1	2	1	
	Tin	ppm	ASTM D5185m	>5	<1	<1	<1	
	Vanadium	ppm	ASTM D5185m		<1	0	0	
	Cadmium	ppm	ASTM D5185m		0	0	0	
	ADDITIVES		method	limit/base	current	history1	history2	
	Boron	ppm	ASTM D5185m	0	25	2	4	
	Barium	ppm	ASTM D5185m	0	0	0	0	
	Molybdenum	ppm	ASTM D5185m	60	66	61	66	
	Manganese	ppm	ASTM D5185m	0	<1	0	<1	
	Magnesium	ppm	ASTM D5185m	1010	1103	1009	1078	
	Calcium	ppm	ASTM D5185m	1070	1168	1064	1176	
	Phosphorus	ppm	ASTM D5185m	1150	1138	1007	1110	
	Zinc	ppm	ASTM D5185m	1270	1434	1295	1407	
	Sulfur	ppm	ASTM D5185m	2060	3425	2775	3703	
	CONTAMINA	NTS	method	limit/base	current	history1	history2	
	Silicon	ppm	ASTM D5185m	>35	5	9	8	
	Sodium	ppm	ASTM D5185m		4	7	6	
	Potassium	ppm	ASTM D5185m	>20	4	9	2	
	INFRA-RED		method	limit/base	current	history1	history2	
	Soot %	%	*ASTM D7844	>7.5	0.2	0.3	0.3	
	Nitration	Abs/cm	*ASTM D7624	>20	7.2	8.5	8.5	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	19.6	19.8	20.2	
	FLUID DEGRA		method	limit/base	current	history1	history2	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	15.4	16.4	16.3	
	Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.2	7.3	8.1	

Machine Id 920098-46

Component **Diesel Engine**

Fluic PETRO CANADA DURON SHP 15W40 (--- LTR)

DIAGNOSIS

Recommendation

Resample at the next service

Wear

All component wear rates are

Contamination

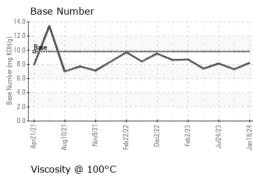
There is no indication of any oil.

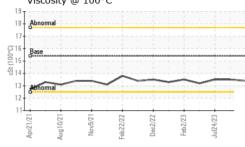
Fluid Condition

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

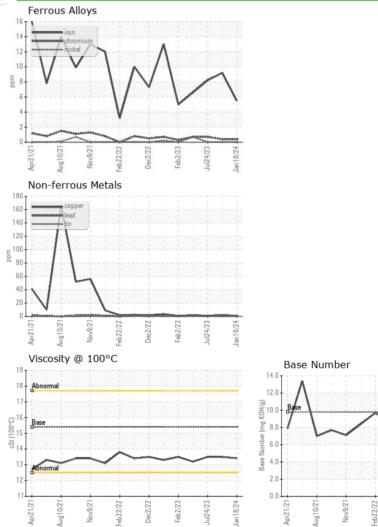


OIL ANALYSIS REPORT





VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.4	13.5	13.5
GRAPHS						





GFL Environmental - 683 - Ruckersville Hauling 261 INDUSTRIAL DR Ruckersville, VA US 22698 Contact: Jaf Finney jfinney@gflenv.com T: (434)990-4972 F:

Dec2/22

Apr21/21

: 19 Jan 2024

: 22 Jan 2024

Aug10/21

Feb2/23

Jan 18/24

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

Unique Number : 10836783

Test Package : FLEET

Laboratory

Sample No.

Lab Number

Apr21/21

Aug 10/21

: GFL0103138

: 06065401

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.

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

Diagnostician : Wes Davis

Recieved

Diagnosed

Certificate L2367