

OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id **3662C** Component **Natural Gas Engine** Fluid **RDL-3647 (28 QTS)**

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

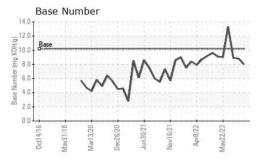
Fluid Condition

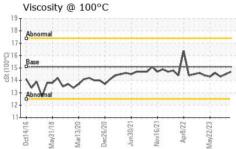
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

2016 May2018 Mar2020 Oxc2020 Jun2021 Nov2022 App2022 May2023							
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0112945	GFL0098128	GFL0079607	
Sample Date		Client Info		13 Mar 2024	04 Dec 2023	08 Aug 2023	
Machine Age	hrs	Client Info		22937	22937	22937	
Oil Age	hrs	Client Info		530	127	533	
Oil Changed		Client Info		N/A	N/A	N/A	
Sample Status				NORMAL	ABNORMAL	ATTENTION	
CONTAMINAT	ION	method	limit/base	current	history1	history2	
Water		WC Method	>0.1	NEG	NEG	NEG	
Glycol		WC Method					
WEAR METAL	S	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>50	5	4	4	
Chromium	ppm	ASTM D5185m	>4	<1	<1	<1	
Nickel	ppm	ASTM D5185m	>2	0	<1	0	
Titanium	ppm	ASTM D5185m		0	0	0	
Silver	ppm	ASTM D5185m	>3	0	0	<1	
Aluminum	ppm	ASTM D5185m	>9	1	2	1	
Lead	ppm	ASTM D5185m	>30	<1	<1	<1	
Copper	ppm	ASTM D5185m	>35	<1	▲ 31	2	
Tin	ppm	ASTM D5185m	>4	0	<1	0	
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	50	28	30	35	
Barium	ppm	ASTM D5185m	5	0	0	0	
Molybdenum	ppm	ASTM D5185m	50	48	52	51	
Manganese	ppm	ASTM D5185m	0	<1	<1	<1	
Magnesium	ppm	ASTM D5185m	560	575	625	530	
Calcium	ppm	ASTM D5185m	1510	1508	1564	1504	
Phosphorus	ppm	ASTM D5185m	780	799	874	763	
Zinc	ppm	ASTM D5185m	870	926	1027	895	
Sulfur	ppm	ASTM D5185m	2040	2777	2683	2326	
CONTAMINAN	ITS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>+100	5	6	7	
Sodium	ppm	ASTM D5185m		5	17	16	
Potassium	ppm	ASTM D5185m	>20	29	<u> </u>	66	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844		0	0	0	
Nitration	Abs/cm	*ASTM D7624	>20	8.0	7.2	5.9	
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.5	19.4	18.4	
FLUID DEGRA	OITAC	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.7	16.1	14.9	
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	8.0	8.8	8.9	



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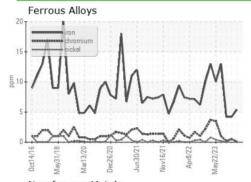


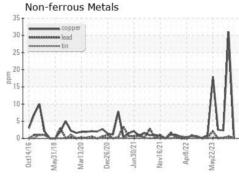


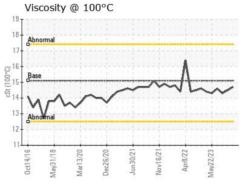
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

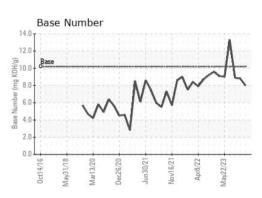
FLUID PROPE	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.1	14.7	14.5	14.3

GRAPHS













Certificate L2367

Laboratory Sample No.

: GFL0112945 Lab Number : 06117668 Unique Number : 10926501 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 13 Mar 2024 **Tested** : 14 Mar 2024

Diagnosed : 14 Mar 2024 - Wes Davis

GFL Environmental - 017 - Durham

148 Stone Park Court Durham, NC

US 27703 Contact:

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

bill.waring@wearcheck.com T: (919)596-1363 F: (919)598-1852

* - 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)