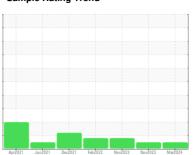


OIL ANALYSIS REPORT

Sample Rating Trend









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

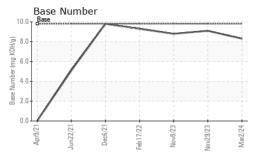
Fluid Condition

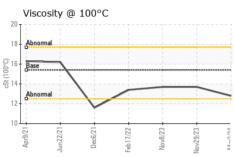
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

14 3111 13 14 40 (WAL)	Apr2021	Jun2021 Dec2021	Feb 2022 Nov2023 Nov2023	Mar2024	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0108890	GFL0101503	GFL0093138
Sample Date		Client Info		02 Mar 2024	29 Nov 2023	08 Nov 2023
Machine Age	hrs	Client Info		25113	24609	24461
Oil Age	hrs	Client Info		24609	24461	20339
Oil Changed		Client Info		Not Changd	Changed	Changed
Sample Status				NORMAL	NORMAL	MARGINAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<u>^</u> 2.9
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	>90	23	8	33
Chromium	ppm	ASTM D5185m	>20	1	0	1
Nickel	ppm	ASTM D5185m	>2	0	0	<1
Titanium	ppm	ASTM D5185m	>2	0	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	3	2	3
Lead	ppm	ASTM D5185m	>40	<1	0	<1
Copper	ppm	ASTM D5185m	>330	2	1	2
Tin	ppm	ASTM D5185m	>15	0	0	<1
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES	ррпп	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<1	0	2
Barium	ppm	ASTM D5185m		0	0	7
Molybdenum		ASTM D5185m	60	59	57	58
•	ppm	ASTM D5185m		0	0	0
Manganese	ppm			908	843	880
Magnesium	ppm	ASTM D5185m	1010			
Calcium	ppm	ASTM D5185m		985	1043	1016
Phosphorus	ppm	ASTM D5185m	1150	987	957	998
Zinc	ppm	ASTM D5185m	1270	1214	1133	1206
Sulfur	ppm	ASTM D5185m	2060	2910	2925	3346
CONTAMINAN		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	2	3
Sodium	ppm	ASTM D5185m		4	1	3
Potassium	ppm	ASTM D5185m		2	2	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.6	0.2	0.9
Nitration	Abs/cm	*ASTM D7624	>20	9.2	6.3	9.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.6	18.4	20.6
FLUID DEGRA	NOITAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.7	14.5	17.1
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.3	9.1	8.8
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OIL ANALYSIS REPORT

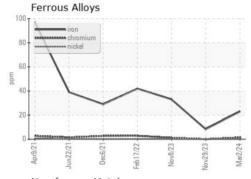


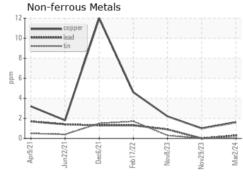


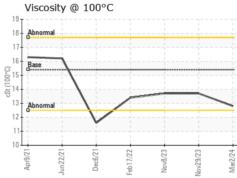
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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

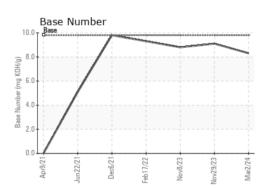
FLUID PROPE	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	12.8	13.7	13.7

GRAPHS













Certificate L2367

Laboratory Sample No.

Lab Number : 06108419 Unique Number : 10911916

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0108890

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

Received **Tested** Test Package : FLEET

: 05 Mar 2024 : 06 Mar 2024 Diagnosed : 06 Mar 2024 - Wes Davis

GFL Environmental - 415 - Michigan East 6200 Elmridge

Sterling Heights, MI US 48313

Contact: Frank Wolak fwolak@gflenv.com T: (586)825-9514

* - 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)