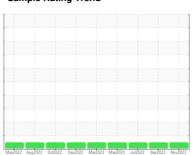


OIL ANALYSIS REPORT

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

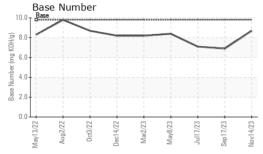
Fluid Condition

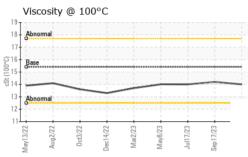
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

	•	May2022 Aug	2022 Oct2022 Dec2022	Mar2023 May2023 Jul2023 Sep20;	13 Nov2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0097695	GFL0087250	GFL0087334
Sample Date		Client Info		14 Nov 2023	17 Sep 2023	17 Jul 2023
Machine Age	hrs	Client Info		17365	16852	16359
Oil Age	hrs	Client Info		513	493	646
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	9	34	25
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	4	2
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m		1	1	<1
Tin	ppm	ASTM D5185m	>15	0	<1	0
Vanadium	ppm	ASTM D5185m	710	<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES	1-1-	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	1	<1	4
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	56	64	60
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	904	915	954
Calcium	ppm	ASTM D5185m	1070	1048	1100	1104
Phosphorus	ppm	ASTM D5185m	1150	950	1026	1015
Zinc	ppm	ASTM D5185m	1270	1242	1298	1317
Sulfur	ppm	ASTM D5185m	2060	2705	3112	3326
CONTAMINAN		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	8	7
Sodium	ppm	ASTM D5185m	725	5	12	9
Potassium	ppm	ASTM D5185m	>20	2	2	<1
	ррпп					
INFRA-RED	0/	method	limit/base	current	history1	history2
Soot %	% A b a /a rea	*ASTM D7844	>6	0.1	0.4	0.3
Nitration	Abs/cm	*ASTM D7624		6.0	10.0	9.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.6	22.0	20.9
FLUID DEGRA	OATION	method	limit/base	current	history1	history2
Out desire	Abs/.1mm	*ASTM D7414	>25	140	10.0	18.2
Oxidation	AUS/.TITIIT	A311VI D7414	>20	14.3	18.6	10.2



OIL ANALYSIS REPORT

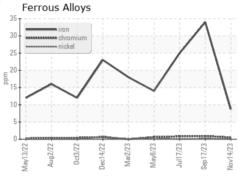


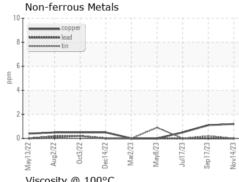


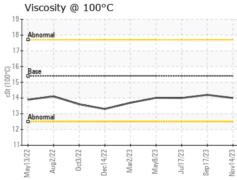
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

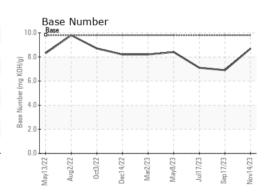
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	15.4	14.0	14.2	14.0	

GRAPHS













Certificate L2367

Laboratory Sample No.

Lab Number **Unique Number** Test Package : FLEET

: GFL0097695 : 06010545

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

: 10749689

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 17 Nov 2023 Diagnosed : 17 Nov 2023

Diagnostician : Wes Davis

GFL Environmental - 405 - Arbor Hills

7400 Napier Rd NORTHVILLE, MI US 48168

Contact: John Nahal jnahal@gflenv.com

T:

* - 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)

F: