

OIL ANALYSIS REPORT

Sample Rating Trend







DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

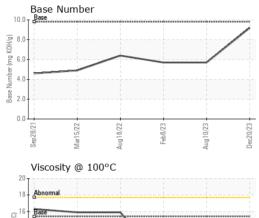
Fluid Condition

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

		0002021	mazozz Augzoza	Peb2023 Aug2023	Dec2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0105873	GFL0086659	GFL0068701
Sample Date		Client Info		20 Dec 2023	10 Aug 2023	08 Feb 2023
Machine Age	hrs	Client Info		7284	7200	6784
Oil Age	hrs	Client Info		7200	6784	6183
Oil Changed		Client Info		Not Changd	Changed	Changed
Sample Status				NORMAL	MARGINAL	SEVERE
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	▲ 2.8	12.8
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	0	82	48
Chromium	ppm	ASTM D5185m	>20	0	4	2
Nickel	ppm	ASTM D5185m	>2	<1	1	0
Titanium	ppm	ASTM D5185m	>2	0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	<1	9	4
Lead	ppm	ASTM D5185m	>40	0	3	<1
Copper	ppm	ASTM D5185m	>330	<1	3	2
Tin	ppm	ASTM D5185m	>15	0	<1	<1
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	0	4	1	0
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	59	65	47
Manganese	ppm	ASTM D5185m	0	<1	1	<1
Magnesium	ppm	ASTM D5185m	1010	951	1060	705
Calcium	ppm	ASTM D5185m	1070	1040	1255	831
Phosphorus	ppm	ASTM D5185m	1150	1122	1119	768
Zinc	ppm	ASTM D5185m	1270	1294	1439	956
Sulfur	ppm	ASTM D5185m	2060	3257	3467	2142
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	19	5
Sodium	ppm	ASTM D5185m		2	15	5
Potassium	ppm	ASTM D5185m	>20	<1	5	5
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0	1.6	0.9
Nitration	Abs/cm	*ASTM D7624	>20	4.2	14.8	11.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.1	28.1	21.1
FLUID DEGRAI	NOITAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.8	27.6	19.4
Base Number (BN)	mg KOH/g	ASTM D2896	0.0	9.2	5.7	5.7



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VISUAL		method				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

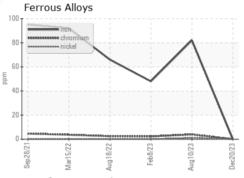
14.7

14.8

<u>\$4.8</u>

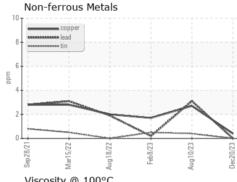
T 7				
Abnormal				
Base				
Base		······································		
Abnormal				
1				
+				
Sep28/21	/22	/22	/23	/23
p21	Mar15/2	Aug18/	Feb8/23	Aug10/23

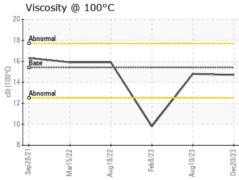
Visc @ 100°C **GRAPHS**

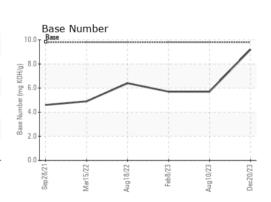


cSt

ASTM D445 15.4











Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10804447 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 06043839

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

: GFL0105873

Recieved : 22 Dec 2023 Diagnosed : 26 Dec 2023 Diagnostician : 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)