

OIL ANALYSIS REPORT



729039-361620

Component **Diesel Engine**



DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

Cylinder, crank, or cam shaft wear is indicated. All other 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.

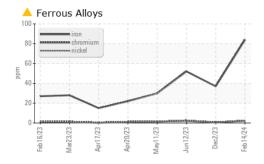
T	Ι	I	Jun2023	

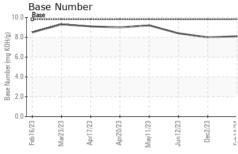
WEAR	

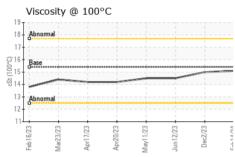
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0106817	GFL0092069	GFL0084689
Sample Date		Client Info		14 Feb 2024	02 Dec 2023	12 Jun 2023
Machine Age	hrs	Client Info		25950	271191	271191
Oil Age	hrs	Client Info		600	267675	0
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				ABNORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
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	>80	<u> </u>	37	52
Chromium	ppm	ASTM D5185m		2	<1	2
Nickel	ppm	ASTM D5185m	>2	2	<1	2
Titanium	ppm	ASTM D5185m		- <1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m		8	4	9
Lead	ppm	ASTM D5185m	>30	1	0	2
Copper	ppm	ASTM D5185m		2	2	2
Tin	ppm	ASTM D5185m	>5	0	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<1	2	5
Barium	ppm	ASTM D5185m	0	0	2	0
Molybdenum	ppm	ASTM D5185m	60	60	64	60
Manganese	ppm	ASTM D5185m	0	<1	0	<1
Magnesium	ppm	ASTM D5185m	1010	1060	907	989
Calcium	ppm	ASTM D5185m	1070	1142	1213	1166
Phosphorus	ppm	ASTM D5185m	1150	1071	989	1027
Zinc	ppm	ASTM D5185m	1270	1338	1216	1327
Sulfur	ppm	ASTM D5185m	2060	2840	2837	3609
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	13	8	7
Sodium	ppm	ASTM D5185m		9	7	9
Potassium	ppm	ASTM D5185m	>20	4	3	8
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	2.3	0.8	2
Nitration	Abs/cm	*ASTM D7624	>20	13.8	10.6	13.2
Sulfation	Ale - / donor	*ASTM D7415	>30	28.4	23.2	27.4
	Abs/.1mm	ASTIVI D7413	/00	20.4	20.2	27.4
FLUID DEGRA			limit/base	current	history1	history2
FLUID DEGRAD				current	history1	
	DATION	method	limit/base			history2

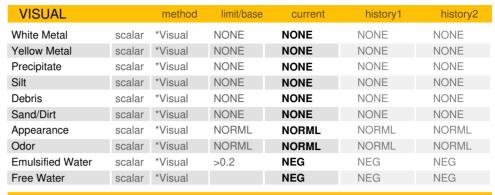


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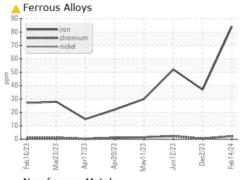


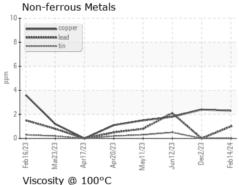


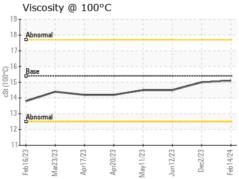


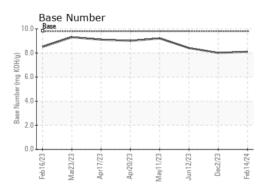
FLUID PROFE	THIES	memod	IIIIII/Dase	Current	HISTORY	HISTORYZ
Visc @ 100°C	cSt	ASTM D445	15.4	15.1	15.0	14.5

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number : 06093523

Test Package : FLEET

: GFL0106817 **Unique Number** : 10886376

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

: 19 Feb 2024 : 20 Feb 2024 Diagnosed

: 21 Feb 2024 - Don Baldridge

GFL Environmental - 856 - Houston South

8515 Highway 6 South Houston, TX US 77083

Contact: Apolinar Zacarias pzacariascano@gflenv.com

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.

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

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