WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

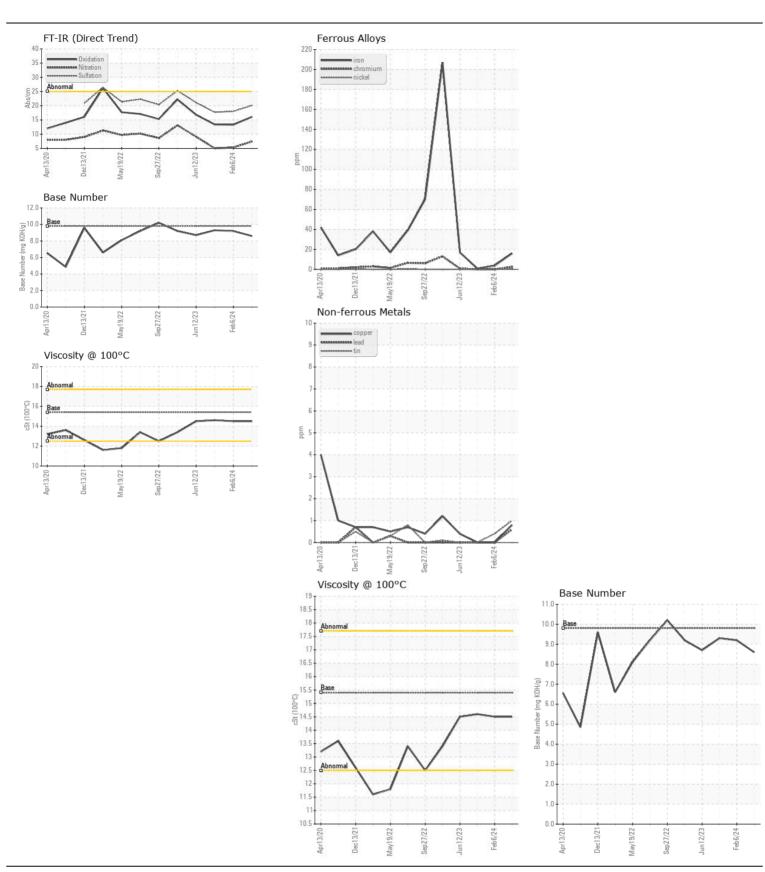
Machine Id

920086-205326

Diesel Engine

Fluid

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		GFL0117776	GFL0103968	GFL010050
	Sample Date		Client Info		16 May 2024	06 Feb 2024	21 Nov 202
	Machine Age	hrs	Client Info		31628	31016	158974
	Oil Age	hrs	Client Info		0	0	158974
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
VEAR	Iron	ppm	ASTM D5185m	>100	16	4	<1
WEAR	Chromium	ppm	ASTM D5185m		2	0	0
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1	0	0
	Titanium	ppm	ASTM D5185m	77	<1	<1	0
	Silver	ppm	ASTM D5185m	~3	<1	0	0
	Aluminum	ppm	ASTM D5185m		6	1	0
	Lead	ppm	ASTM D5185m		<1	0	0
	Copper	ppm	ASTM D5185m		<1	0	0
	Tin	ppm	ASTM D5185m		1	<1	0
	Vanadium	ppm	ASTM D5185m	7.0	<1	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTABBINATION	0.00		AOTA DEADE	05		4	4
CONTAMINATION	Silicon	ppm	ASTM D5185m		5	4	4
There is no indication of any contamination in the oil.	Potassium Fuel	ppm	ASTM D5185m		11	2	0
			WC Method		<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol Soot %	%	*ASTM D7844	. 0	NEG 0.5	NEG 0.3	NEG 0.2
	Nitration	Abs/cm	*ASTM D7624	>20	7.4	5.3	5.0
	Sulfation	Abs/.1mm	*ASTM D7024		20.1	18.0	17.7
	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	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water		*Visual	>0.2	NEG	NEG	NEG
LUID CONDITION	Sodium	ppm	ASTM D5185m		2	2	<1
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		7	13	2
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		62	56	56
	Manganese	ppm	ASTM D5185m		<1	<1	0
	Magnesium	ppm	ASTM D5185m		977	907	923
	Calcium	ppm	ASTM D5185m		1200	1136	1057
	Phosphorus	ppm	ASTM D5185m		1037	1051	964
	Zinc	ppm	ASTM D5185m		1300	1245	1200
	Sulfur	ppm	ASTM D5185m		3546	3202	3269
	Oxidation Base Number (BN)	Abs/.1mm	*ASTM D7414		16.1 8.6	13.3 9.2	13.4 9.3
	Race Number (RNI)	ma k( )H/a	4511/11/2896	y x	×h	47	93





Certificate L2367

Report Id: GFL865 [WUSCAR] 06189973 (Generated: 05/25/2024 00:26:42) Rev: 1

Laboratory Sample No.

: GFL0117776 Lab Number : 06189973 Unique Number : 11046725 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 23 May 2024

**Tested** : 25 May 2024 Diagnosed : 25 May 2024 - Wes Davis

GFL Environmental - 865 - East Mount Hauling

7213 East Mount Houston Road Houston, TX US 77050

Contact: Saul Castillo saul.castillo@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)

T:

F: