WEAR CONTAMINATION FLUID CONDITION

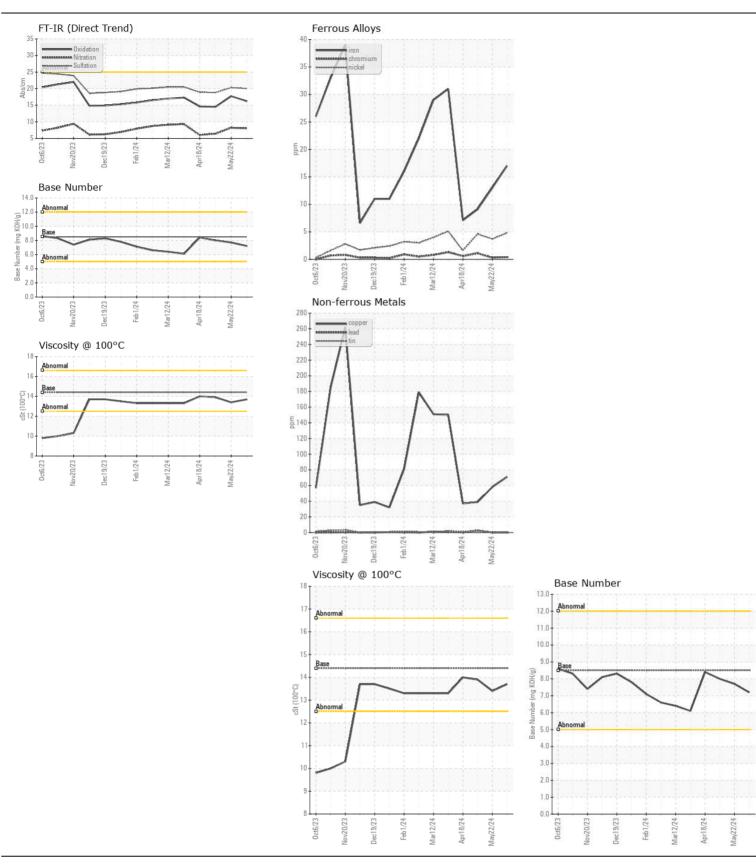
NORMAL NORMAL

Machine Id

914031

Component Diesel Engine

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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.	Sample Number		Client Info		GFL0123022	GFL0123040	GFL011941
	Sample Date		Client Info		11 Jun 2024	22 May 2024	30 Apr 2024
	Machine Age	hrs	Client Info		1889	1745	1591
	Oil Age	hrs	Client Info		144	154	66
	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
WEAR	Iron	ppm	ASTM D5185m	>100	17	13	9
	Chromium	ppm	ASTM D5185m	>20	<1	<1	1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		5	4	5
	Titanium	ppm	ASTM D5185m		0	0	<1
	Silver	ppm	ASTM D5185m	>3	<1	<1	<1
	Aluminum	ppm	ASTM D5185m		2	<1	1
	Lead	ppm	ASTM D5185m		0	0	2
	Copper	ppm	ASTM D5185m	>330	71	58	39
	Tin	ppm	ASTM D5185m	>15	<1	0	2
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	0:::		AOTM DE405	05			4
CONTAMINATION	Silicon	ppm	ASTM D5185m		5	0	4
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		3	0	2
	Fuel		WC Method	>5	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol	0/	WC Method	0	NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0.4	0.4	0.2 6.4
	Nitration Sulfation	Abs/cm Abs/.1mm	*ASTM D7624 *ASTM D7415	>20	8.0 20.0	8.2 20.3	18.8
	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		*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>216	5	3	3
The PN regult indicates that there is suitable all all all all all all all all all a	Boron	ppm	ASTM D5185m	250	10	2	8
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m	10	0	0	0
	Molybdenum	ppm	ASTM D5185m	100	63	61	55
	Manganese	ppm	ASTM D5185m		1	<1	1
	Magnesium	ppm	ASTM D5185m		933	923	1001
	Calcium	ppm	ASTM D5185m	3000	1111	1114	1153
	Phosphorus	ppm	ASTM D5185m		1019	985	1088
	Zinc	ppm	ASTM D5185m		1239	1186	1297
	Sulfur	ppm	ASTM D5185m		3013	3052	3706
	Oxidation	Abs/.1mm	*ASTM D7414		16.2	17.7	14.5
	Base Number (BN)		ASTM D2896		7.2	7.7	8.0
	Visc @ 100°C	cSt	ASTM D445	14.4	13.7	13.4	13.9





Certificate L2367

Laboratory

Sample No.

Lab Number : 06212869 Unique Number : 11085733

Test Package : FLEET

: GFL0123022

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 17 Jun 2024

Tested : 19 Jun 2024 Diagnosed

: 19 Jun 2024 - Wes Davis

4005 Hwy 161 N. Little Rock, AR US 72117

GFL Environmental - 814 - Little Rock Hauling

Contact: Michael Lovin mlovin@gflenv.com T:

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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