WEAR CONTAMINATION FLUID CONDITION

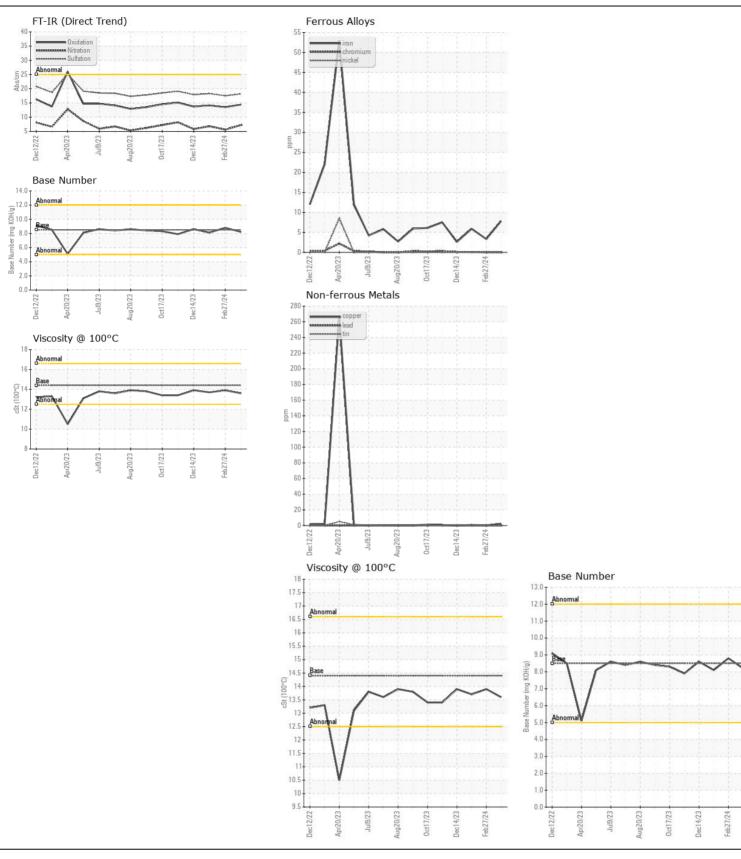
NORMAL NORMAL

Machine Id

812039

Component
Diesel Engine

DIESEL ENGINE OIL SAE 40 (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 40. Please confirm.	Sample Number	OOW	Client Info	LITTIU/ADTI	GFL0102944	GFL0102964	GFL0102979
	Sample Date		Client Info		13 Apr 2024	27 Feb 2024	15 Jan 2024
	Machine Age	hrs	Client Info		4703	4448	4311
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed	0	Client Info		N/A	N/A	N/A
	Filter Changed		Client Info		N/A	N/A	N/A
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>110	8	3	6
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>4	0	0	<1
	Nickel	ppm	ASTM D5185m	>2	0	0	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>25	4	3	4
	Lead	ppm	ASTM D5185m	>45	0	0	0
	Copper	ppm	ASTM D5185m	>85	2	<1	<1
	Tin	ppm	ASTM D5185m	>4	0	0	0
	Vanadium	ppm	ASTM D5185m		0	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>30	5	4	4
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	2	1	4
	Fuel		WC Method	>5	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.2	0.1	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	7.2	5.6	6.8
	Sulfation	Abs/.1mm	*ASTM D7415		18.2	17.5	18.3
	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
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2	1	<1
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		9	15	15
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m	100	63	70	58
	Manganese	ppm	ASTM D5185m	150	<1	<1	<1
	Magnesium	ppm	ASTM D5185m		920	1032	857
	Calcium	ppm	ASTM D5185m	3000	1092	1214	1241
	Phosphorus	ppm	ASTM D5185m		1084	1228	1063
	Zinc	ppm	ASTM D5185m		1276	1421	1273
	Sulfur	ppm	ASTM D5185m		3741	3595	3264
	Oxidation	Abs/.1mm	*ASTM D7414		14.4	13.5	14.1
	Base Number (BN)				8.2	8.8	8.1
	Visc @ 100°C	cSt	ASTM D445	14.4	13.6	13.9	13.7





Certificate L2367

Laboratory Sample No.

: GFL0102944 **Lab Number** : 06147160 Unique Number : 10977238 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 12 Apr 2024 : 15 Apr 2024

Tested Diagnosed

: 15 Apr 2024 - Wes Davis

GFL Environmental - 816 - WCA of South Arkansas 3083 Smackover Hwy

El Dorado, AR US 71730

Contact: Mike Howell mike.howell@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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