WEAR CONTAMINATION FLUID CONDITION

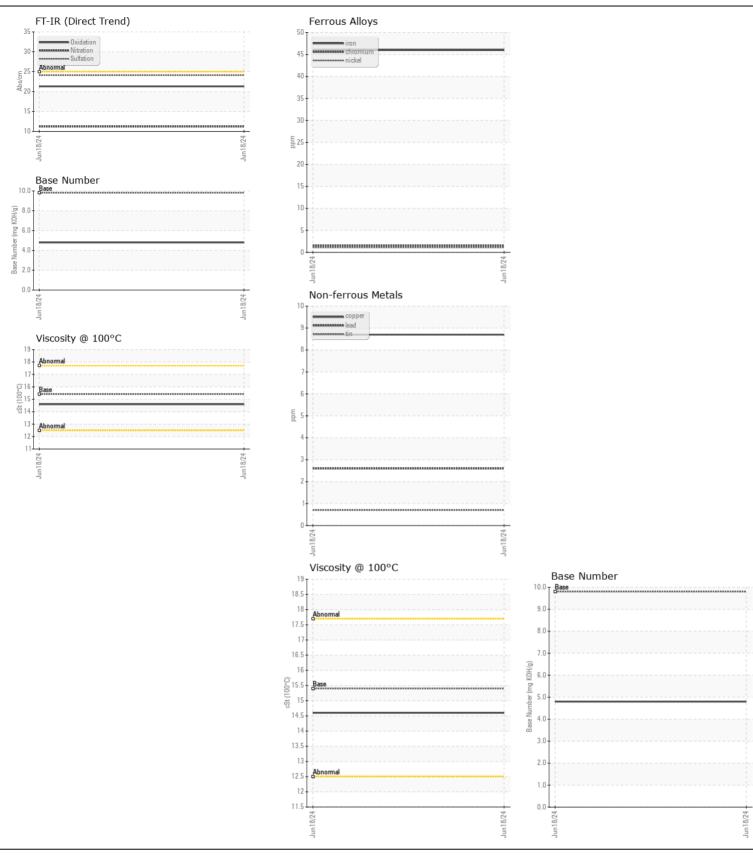
NORMAL NORMAL NORMAL

Machine Id

834041Component

Component Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		GFL0123399		
Resample at the next service interval to monitor. Please specify the component make and model with your next sample.	Sample Date		Client Info		18 Jun 2024		
	Machine Age	hrs	Client Info		612		
	Oil Age	hrs	Client Info		150		
	Filter Age	hrs	Client Info		150		
	Oil Changed		Client Info		Not Changd		
	Filter Changed		Client Info		Not Changd		
	Sample Status				NORMAL		
VEAR	Iron	ppm	ASTM D5185m	<u> </u>	46		
VEAIT	Chromium	ppm	ASTM D5185m		2		
Metal levels are typical for a new component breaking in.	Nickel		ASTM D5185m		1		
	Titanium	ppm	ASTM D5185m	24	- <1		
	Silver		ASTM D5185m	~3	<1		
	Aluminum	ppm ppm	ASTM D5185m		5		
	Lead	ppm	ASTM D5185m		3		
	Copper	ppm	ASTM D5185m		9		
	Tin	ppm	ASTM D5185m		<1		
	Vanadium	ppm	ASTM D5185m	710	<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m		18		
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		10		
	Fuel		WC Method		<1.0		
	Water		WC Method	>0.2	NEG		
	Glycol	0/	WC Method	. 0	NEG		
	Soot % Nitration	%	*ASTM D7844 *ASTM D7624		0		
		Abs/tmm		>20	11.2		
	Sulfation Silt	Abs/.1mm	*ASTM D7415 *Visual		24.1 NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
		scalar	*Visual	NORML	NORML		
	Appearance Odor	scalar scalar	*Visual	NORML	NORML		
	Emulsified Water		*Visual	>0.2	NEG		
<u></u>	vvaler		Visuai	70.2			
LUID CONDITION	Sodium	ppm	ASTM D5185m		5		
	Boron	ppm	ASTM D5185m	0	15		
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	0	2		
	Molybdenum	ppm	ASTM D5185m	60	59		
	Manganese	ppm	ASTM D5185m	0	9		
	Magnesium	ppm	ASTM D5185m	1010	780		
	Calcium	ppm	ASTM D5185m	1070	1713		
	Phosphorus	ppm	ASTM D5185m	1150	869		
	Zinc	ppm	ASTM D5185m	1270	1140		
	Sulfur	ppm	ASTM D5185m	2060	3015		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	21.3		
	Base Number (BN)	mg KOH/g	ASTM D2896	9.8	4.8		
	Visc @ 100°C	cSt	ASTM D445		14.6		







Certificate L2367

Laboratory Sample No.

: GFL0123399 Lab Number : 06215653 Unique Number: 11088517 Test Package : FLEET

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 20 Jun 2024

Tested : 21 Jun 2024 Diagnosed : 21 Jun 2024 - Wes Davis

GFL Environmental - 007 - Brunswick

2809 Galloway Road Bolivia, NC

F: (910)253-4179

US 28422 Contact: DONALD CRAVEN

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* - 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)