WEAR CONTAMINATION FLUID CONDITION

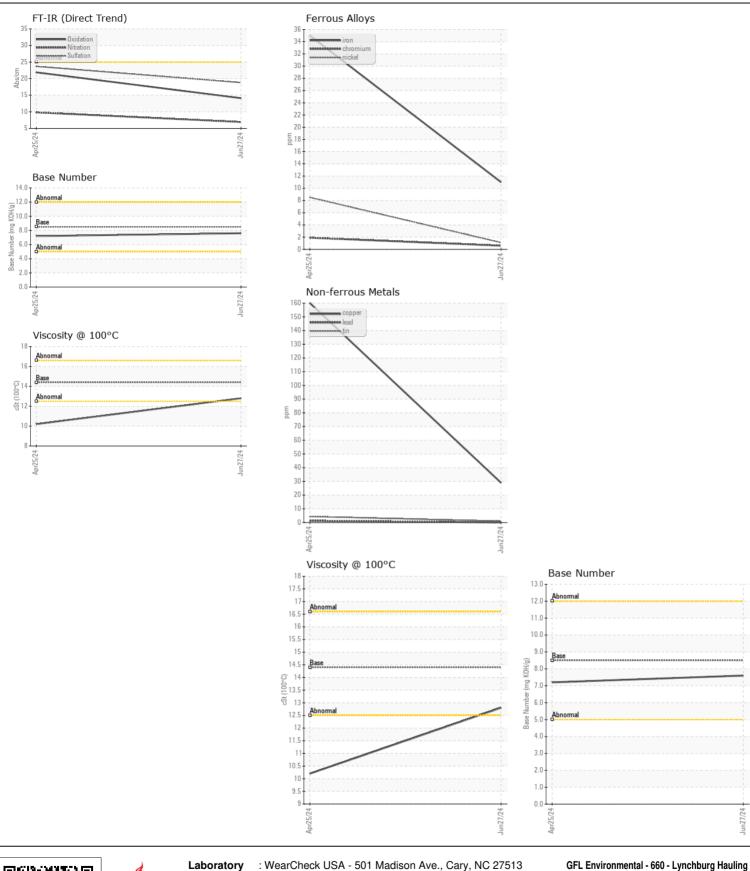
NORMAL NORMAL



Machine Id
414077
Component
Diesel Engine
Fluid

DIESEL ENGINE OIL SAE 15W40 (--- LTR)

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		GFL0122711	GFL0110209	
	Sample Date		Client Info		27 Jun 2024	25 Apr 2024	
	Machine Age	hrs	Client Info		1060	647	
	Oil Age	hrs	Client Info		600	600	
	Filter Age	hrs	Client Info		600	600	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	ATTENTION	
WEAR	Iron	ppm	ASTM D5185m	>120	11	35	
	Chromium	ppm	ASTM D5185m	>20	<1	2	
Metal levels are typical for a new component breaking in.	Nickel	ppm	ASTM D5185m	>5	1	8	
	Titanium	ppm	ASTM D5185m	>2	<1	<1	
	Silver	ppm	ASTM D5185m	>2	2	1	
	Aluminum	ppm	ASTM D5185m	>20	6	16	
	Lead	ppm	ASTM D5185m	>40	0	1	
	Copper	ppm	ASTM D5185m	>330	29	160	
	Tin	ppm	ASTM D5185m	>15	1	4	
	Vanadium	ppm	ASTM D5185m		<1	<1	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	nnm	ASTM D5185m	- 25	7	54	
CONTAINMATION	Potassium	ppm	ASTM D5185m		16	36	
Elevated aluminum (AI) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.	Fuel	ppm		>3.0	<1.0	0.3	
	Water		WC Method		NEG	NEG	
	Glycol		WC Method	<i>&gt;</i> 0.2	NEG	NEG	
	Soot %	%	*ASTM D7844	<b>\</b> 4	0.2	0.2	
	Nitration	Abs/cm	*ASTM D7624	>20	6.9	9.8	
	Sulfation	Abs/.1mm	*ASTM D7415		18.8	23.7	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		0	3	
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		17	146	
	Barium	ppm	ASTM D5185m		<1	<1	
	Molybdenum	ppm	ASTM D5185m	100	64	116	
	Manganese	ppm	ASTM D5185m	4=0	<1	5	
	Magnesium	ppm	ASTM D5185m		813	796	
	Calcium	ppm	ASTM D5185m		1131	1598	
	Phosphorus	ppm	ASTM D5185m		894	830	
	Zinc	ppm	ASTM D5185m		1136	995	
	Sulfur	ppm Abo/ 1mm	ASTM D5185m		2493	3129	
	Oxidation	Abs/.1mm	*ASTM D7414		14.1 7.6	21.9 7.2	
	Base Number (BN) Visc @ 100°C	cSt	ASTM D2896 ASTM D445				
	visc @ 100-C	USI	MO 1 IVI D445	14.4	12.8	10.2	







Certificate L2367

Laboratory Sample No.

Lab Number : 06225661

Test Package : FLEET

: GFL0122711 Unique Number: 11103858

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 01 Jul 2024 **Tested** : 02 Jul 2024

Diagnosed : 02 Jul 2024 - Wes Davis

2410 Mayflower Drive Lynchburg, VA

US 24501 Contact: Delbert Beasley dbeasley@countyrecycling.net

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)

F:

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