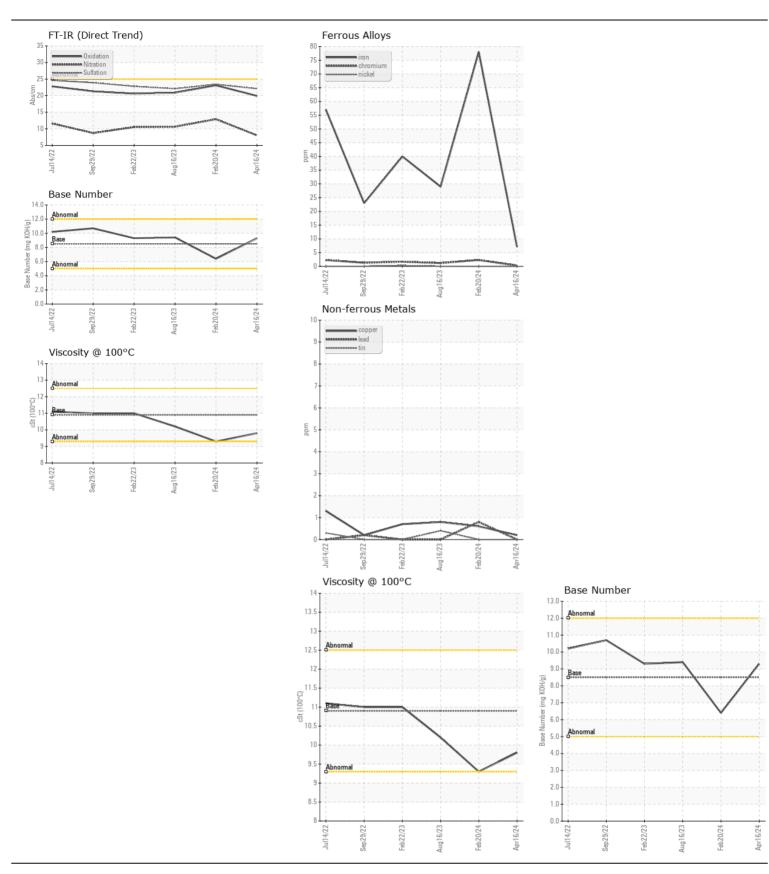
WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL

Machine Id **36087**

Component
Diesel Engine

DIESEL ENGINE OIL SAE 10W30 (QTS)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
TIEGOMMENDATION	Sample Number		Client Info	Ellillo 7 toll	IL0031036	IL0034877	IL05967544
Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.	Sample Date		Client Info		16 Apr 2024	20 Feb 2024	16 Aug 2023
	Machine Age	hrs	Client Info		24648	3899	3306
	Oil Age	hrs	Client Info		0	0	500
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		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	>100	7	78	29
	Chromium	ppm	ASTM D5185m	>20	<1	2	1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>4	0	0	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	3	10	5
	Lead	ppm	ASTM D5185m	>40	0	<1	0
	Copper	ppm	ASTM D5185m	>330	<1	<1	<1
	Tin	ppm	ASTM D5185m	>15	0	0	<1
	Vanadium	ppm	ASTM D5185m		0	<1	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	nnm	ASTM D5185m	> 25	1	7	6
CONTAMINATION	Potassium	ppm	ASTM D5185m		2	9	6
There is no indication of any contamination in the oil.	Fuel	ppiii	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	<i>></i> 0.2	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	~3	0.5	1.4	1
	Nitration	Abs/cm	*ASTM D7624	>20	8.0	12.9	10.6
	Sulfation	Abs/.1mm	*ASTM D7415		22.1	23.4	22.1
	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
ELUID CONDITION	Co alii		ACTM DE105				
FLUID CONDITION	Sodium	ppm	ASTM D5185m	050	3	3	2
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		59	31	32
	Barium	ppm	ASTM D5185m		0	0	0
	Manganasa	ppm	ASTM D5185m ASTM D5185m	100	38	38 <1	42 <1
	Manganese Magnesium	ppm	ASTM D5185m	150	<1 466	450	467
	Calcium	ppm	ASTM D5185m	3000	1538	1535	1544
	Phosphorus	ppm	ASTM D5185m		706	670	684
	Zinc		ASTM D5185m		706 786	811	839
	Sulfur	ppm	ASTM D5185m		2474	1953	2300
	Oxidation	Abs/.1mm	*ASTM D7414		19.9	23.1	20.9
	Base Number (BN)				9.3	6.4	9.4
	Visc @ 100°C	cSt	ASTM D2030		9.8	9.3	10.2
	VISC @ 100 C	COL	70 HVI D440	10.5	9.0	5.0	10.2







Certificate L2367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06157374

Test Package : FLEET

: IL0031036 Unique Number : 10992797

Received **Tested**

: 23 Apr 2024 : 24 Apr 2024 Diagnosed

: 24 Apr 2024 - Wes Davis

IDEALEASE OF ATLANTA - FULTON 4675 BAKERS FERRY ROAD

ATLANTA, GA US 30331

Contact: DAVID JOHNS davidjohns@idealease.com

T: (404)699-5571 F: (404)699-7420

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)