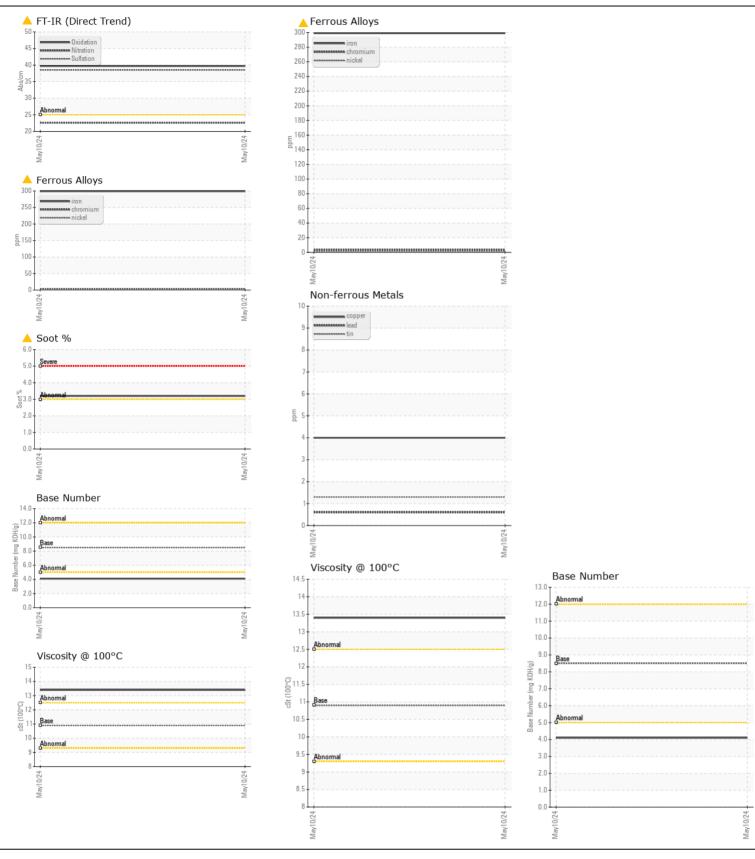
WEAR CONTAMINATION **FLUID CONDITION** **ABNORMAL ABNORMAL NORMAL**

Machine Id

NOT GIVEN WC0926109 Component Diesel Engine

DIESEL ENGINE OIL SAE 10W30 (QTS)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check for faulty combustion, plugged air filters, or aftercoolers. Resample at the next service interval to monitor.	Sample Number		Client Info		WC0926109		
	Sample Date		Client Info		10 May 2024		
	Machine Age	mls	Client Info		1232		
	Oil Age	mls	Client Info		1232		
	Filter Age	mls	Client Info		1232		
	Oil Changed		Client Info		N/A		
	Filter Changed		Client Info		N/A		
	Sample Status				ABNORMAL		
VEAR	Iron	ppm	ASTM D5185m	>100	299		
	Chromium	ppm	ASTM D5185m	>20	3		
Cylinder, crank, or cam shaft wear is indicated. All other metal levels are typical for a new component breaking in.	Nickel	ppm	ASTM D5185m		2		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m	>3	<1		
	Aluminum	ppm	ASTM D5185m		6		
	Lead	ppm	ASTM D5185m		<1		
	Copper	ppm	ASTM D5185m	>330	4		
	Tin	ppm	ASTM D5185m	>15	1		
	Vanadium	ppm	ASTM D5185m		<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	13		
There is an abnormal amount of solids and carbon present in the oil.	Potassium	ppm	ASTM D5185m	>20	4		
	Fuel	%	ASTM D3524	>5	<1.0		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	△ 3.2		
	Nitration	Abs/cm	*ASTM D7624	>20	22.6		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	38.5		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.2	NEG		
LUID CONDITION	Sodium	ppm	ASTM D5185m		3		
	Boron	ppm	ASTM D5185m	250	4		
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.	Barium	ppm		10	0		
	Molybdenum	ppm	ASTM D5185m		63		
	Manganese	ppm	ASTM D5185m	,	2		
	Magnesium	ppm	ASTM D5185m	450	840		
	Calcium	ppm	ASTM D5185m	3000	1279		
	Phosphorus	ppm	ASTM D5185m		900		
	Zinc	ppm	ASTM D5185m		1255		
	Sulfur	ppm	ASTM D5185m		2890		
	Oxidation	Abs/.1mm	*ASTM D7414		39.7		
	Base Number (BN)		ASTM D2896		4.1		







Laboratory Sample No.

Lab Number : 06190252

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0926109

Received **Tested**

Diagnosed

: 29 May 2024 : 29 May 2024 - Don Baldridge Unique Number : 11047004

: 24 May 2024

Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

Test Package: FLEET (Additional Tests: FuelDilution, PercentFuel)

* - 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)

CARCO TRANSPORTATION

3403 EAST ROOSEVELT ROAD LITTLE ROCK, AR US 72206

Contact: DENNIS CATES denniscates@carcotrans.com

T: (800)967-0777

F: