

**WEAR** CONTAMINATION **FLUID CONDITION** 

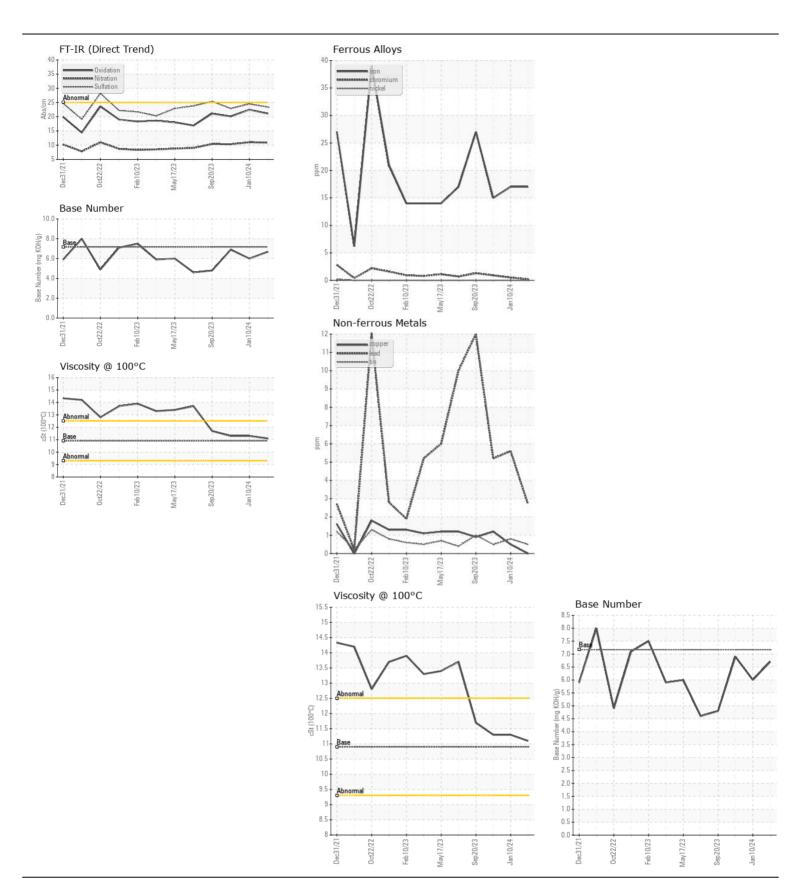
**NORMAL NORMAL NORMAL** 

Machine Id

2047

Component
Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info	21111071011	WC0878620	WC0878613	WC085399
Resample at the next service interval to monitor. Please specify the component make and model with your next sample.	Sample Date		Client Info		04 Mar 2024	10 Jan 2024	11 Nov 202
	Machine Age	mls	Client Info		428461	396953	363921
	Oil Age	mls	Client Info		31510	33032	21259
	Filter Age	mls	Client Info		31510	33032	21259
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	nnm	ASTM D5185m	>100	17	17	15
WEAR	Chromium	ppm	ASTM D5185m		<1 <1	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	0	0
	Titanium	ppm ppm	ASTM D5185m	>4	0	0	0
	Silver		ASTM D5185m	~3	0	0	0
	Aluminum	ppm	ASTM D5185m		2	3	3
	Lead	ppm	ASTM D5185m		3	6	5
	Copper	ppm	ASTM D5185m		0	<1	1
	Tin	ppm	ASTM D5185m		<1	<1	<1
	Vanadium	ppm	ASTM D5185m	710	0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m		3	4	4
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		2	2	3
	Fuel		WC Method		<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method	-	NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0.4	0.4	0.4
	Nitration	Abs/cm	*ASTM D7624	>20	10.9	11.0	10.3
	Sulfation Silt	Abs/.1mm	*ASTM D7415 *Visual		23.4 NONE	24.5	22.9 NONE
	Debris	scalar	*Visual	NONE	NONE	NONE NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar scalar	*Visual	NORML	NORML	NORML	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water		*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		0	1	2
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		1	3	0
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		61	61	58
	Manganese	ppm	ASTM D5185m		0	<1	<1
	Magnesium	ppm	ASTM D5185m		1001	987	981
	Calcium	ppm	ASTM D5185m		1106	998	1120
	Phosphorus	ppm	ASTM D5185m		1072	1039	960
	Zinc	ppm	ASTM D5185m	1030	1290	1297	1286
	Sulfur	ppm	ASTM D5185m	0.5	3301	2920	2969
	Oxidation	Abs/.1mm	*ASTM D7414		21.1	22.5	20.1
	Base Number (BN)	0	ASTM D2896		6.7	6.0	6.9
	Visc @ 100°C	cSt	ASTM D445	10.90	11.1	11.3	11.3







Certificate L2367

Laboratory Sample No.

: WC0878620 Lab Number : 06151510 Unique Number: 10981588 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 17 Apr 2024 **Tested** : 18 Apr 2024

Diagnosed : 18 Apr 2024 - Wes Davis **CARCO TRANSPORTATION** 

3403 EAST ROOSEVELT ROAD LITTLE ROCK, AR

US 72206 Contact: DENNIS CATES

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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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