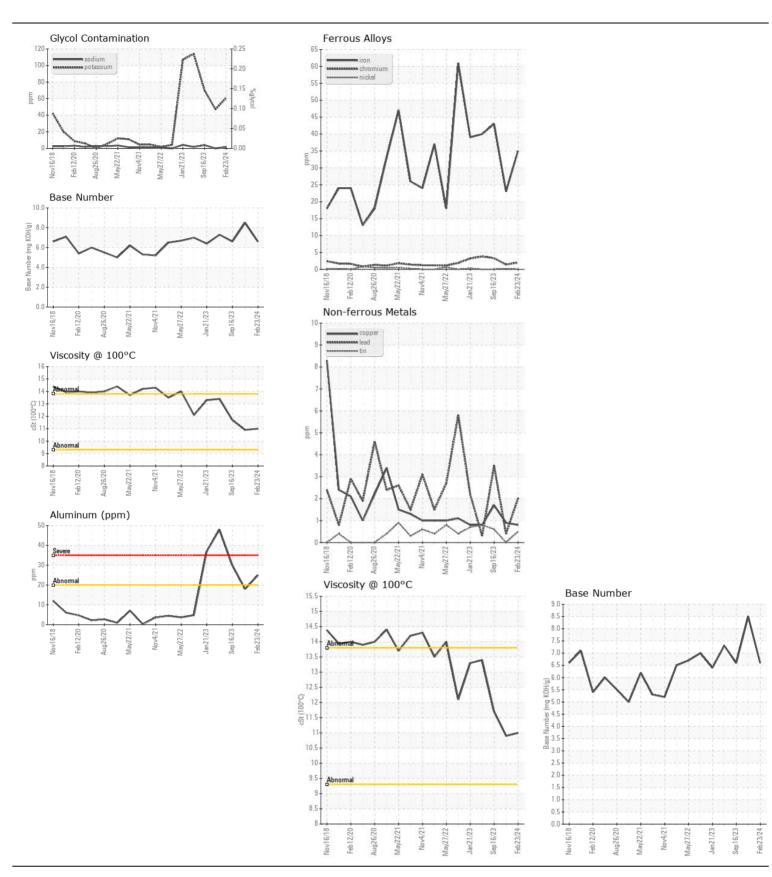
WEAR CONTAMINATION **FLUID CONDITION** **NORMAL NORMAL NORMAL**

INTERNATIONAL 1564

Component

Diesel Engine SAFETY-KLEEN PERFORMANCE PLUS 10W3	0 (48 QTS)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
RECOMMENDATION	Sample Number	OOW	Client Info	LIIIIUAUII	WC0886825	WC0852689	WC0802066
No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number		Client Info		23 Feb 2024	25 Nov 2023	16 Sep 202
	Machine Age	mls	Client Info		630695	618245	601697
	Oil Age	mls	Client Info		0	16440	31839
	Filter Age	mls	Client Info		0	16440	4058
	Oil Changed	11110	Client Info		N/A	Not Changd	Changed
	Filter Changed		Client Info		N/A	Changed	Changed
	Sample Status		Oliciti IIIIo		NORMAL	NORMAL	ABNORMA
WEAR	Iron	ppm	ASTM D5185m	>165	35	23	43
All	Chromium	ppm	ASTM D5185m	>5	2	1	3
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>4	0	<1	0
	Titanium	ppm	ASTM D5185m	>2	0	0	0
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	25	18	30
	Lead	ppm	ASTM D5185m	>150	2	<1	4
	Copper	ppm	ASTM D5185m	>90	<1	<1	2
	Tin	ppm	ASTM D5185m	>5	<1	0	<1
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m		4	3	5
Elevated aluminum (Al) 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. No other contaminants were detected in the oil.	Potassium	ppm	ASTM D5185m		61	47	70
	Fuel		WC Method		<1.0	<1.0	<u>1.5</u>
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>7.5	0.3	0.2	0
	Nitration	Abs/cm	*ASTM D7624	>20	9.9	8.2	10.0
	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.9	19.5	24.1
	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	NORMI
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Codium		ACTM DE10Em			0	4
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2	0	4
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron Barium	ppm	ASTM D5185m ASTM D5185m		7 0	8 2	0
		ppm					
	Molybdenum	ppm	ASTM D5185m		55 -1	58	50
	Maganese	ppm	ASTM D5185m		<1	0	
	Magnesium Calcium	ppm	ASTM D5185m ASTM D5185m		839	850	735
		ppm			1008	1095	1485
	Phosphorus	ppm	ASTM D5185m		918	935	986
	Zinc Sulfur	ppm	ASTM D5185m		1179	1167	1227
		ppm Abo/1mm	ASTM D5185m	- OF	2713	4370	3617
	Oxidation	Abs/.1mm	*ASTM D7414	>20	16.6	14.9	17.4
	Base Number (BN)				6.6	8.5	6.6
	Visc @ 100°C	cSt	ASTM D445		11.0	10.9	<u>▲</u> 11.7







Certificate L2367

Report Id: CARFORAR [WUSCAR] 06105832 (Generated: 03/04/2024 22:26:32) Rev: 1

Laboratory Sample No.

: WC0886825 Lab Number : 06105832 Unique Number: 10909329 Test Package : FLEET

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

Tested : 02 Mar 2024 Diagnosed

: 04 Mar 2024 - Don Baldridge

: 01 Mar 2024

CARCO TRANSPORTATION

2801 MIDLAND BLVD. FORT SMITH, AR US 72904

Contact: RON BALL rball@carcotrans.com T: (479)441-3228

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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