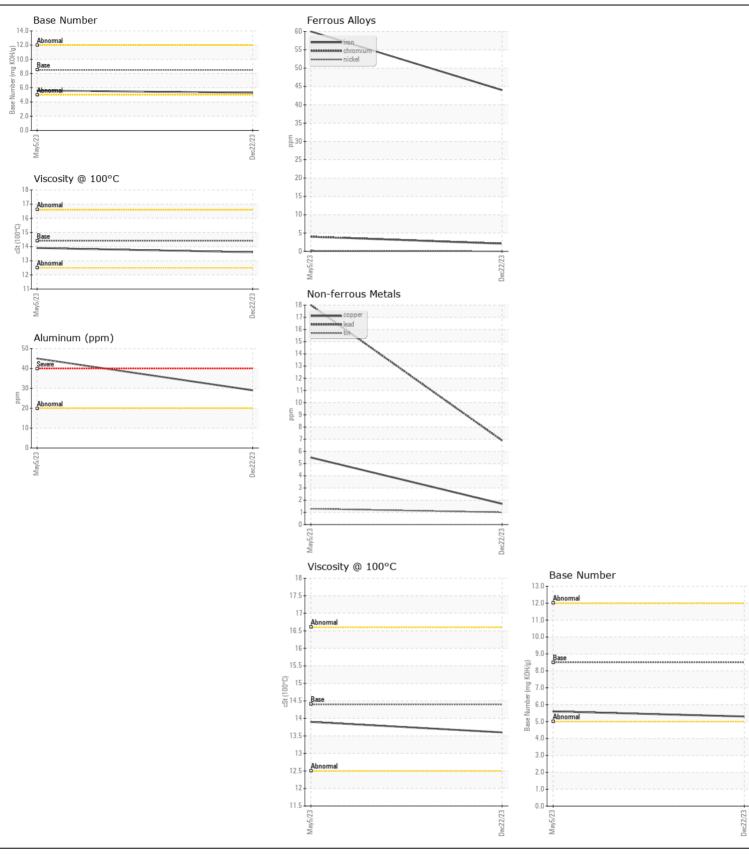
**WEAR** CONTAMINATION **FLUID CONDITION**  **NORMAL NORMAL NORMAL** 

Machine Id

289009

Component \_

Diesel Engine							
DIESEL ENGINE OIL SAE 15W40 ( QTS)							
	T4	UOM	Mathaal	Line it / Alexa	Current	I lintom d	L lintary O
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.	Test Sample Number	UOIVI	Method Client Info	Limit/Abn	WC0878602	History1 WC0800617	History2
	Sample Date		Client Info		22 Dec 2023	05 May 2023	
	Machine Age	mls	Client Info		221010	194873	
	Oil Age	mls	Client Info		0	0	
	Filter Age	mls	Client Info		0	0	
	Oil Changed	11110	Client Info		N/A	Changed	
	Filter Changed		Client Info		N/A	Changed	
	Sample Status				NORMAL	NORMAL	
WEAR	Iron	nnm	ASTM D5185m	> 100	44	60	
WLAN	Chromium	ppm	ASTM D5185m		2	4	
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	<1	
	Titanium	ppm	ASTM D5185m	74	<1	<1	
	Silver	ppm	ASTM D5185m	<b>\3</b>	<1	0	
	Aluminum	ppm	ASTM D5185m		29	45	
	Lead	ppm	ASTM D5185m		7	18	
	Copper	ppm	ASTM D5185m		2	6	
	Tin	ppm	ASTM D5185m		1	1	
	Vanadium	ppm	ASTM D5185m		0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m		13	13	
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.	Potassium	ppm	ASTM D5185m		67	111	
	Fuel			>5	<1.0	<1.0	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method	-	NEG	NEG	
	Soot %	%	*ASTM D7844		0.5	0.6	
	Nitration	Abs/cm	*ASTM D7624	>20	9.1	11.7	
	Sulfation	Abs/.1mm	*ASTM D7415		23.9 NONE	27.6	
	Silt Debris	scalar	*Visual *Visual	NONE	NONE	NONE NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water		*Visual	>0.2	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>158	2	5	
The DN years the indicates that there is suitable alludinity remaining in the	Boron	ppm	ASTM D5185m	250	7	27	
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m	100	21	15	
	Manganese	ppm	ASTM D5185m		<1	1	
	Magnesium	ppm	ASTM D5185m		178	234	
	Calcium	ppm	ASTM D5185m	3000	2229	2233	
	Phosphorus	ppm	ASTM D5185m		1071	1025	
	Zinc	ppm	ASTM D5185m	1350	1235	1333	
	Sulfur	ppm	ASTM D5185m		3494	4026	
	Oxidation	Abs/.1mm	*ASTM D7414		16.4	21.9	
	Base Number (BN)	0 0	ASTM D2896		5.3	5.6	
	Visc @ 100°C	cSt	ASTM D445	14.4	13.6	13.9	







Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** 

: WC0878602 : 06060781 : 10832163 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 16 Jan 2024 : 17 Jan 2024 Diagnosed Diagnostician : Wes Davis

**CARCO TRANSPORTATION** 3403 EAST ROOSEVELT ROAD LITTLE ROCK, AR

US 72206 Contact: DENNIS CATES denniscates@carcotrans.com T: (800)967-0777

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)