

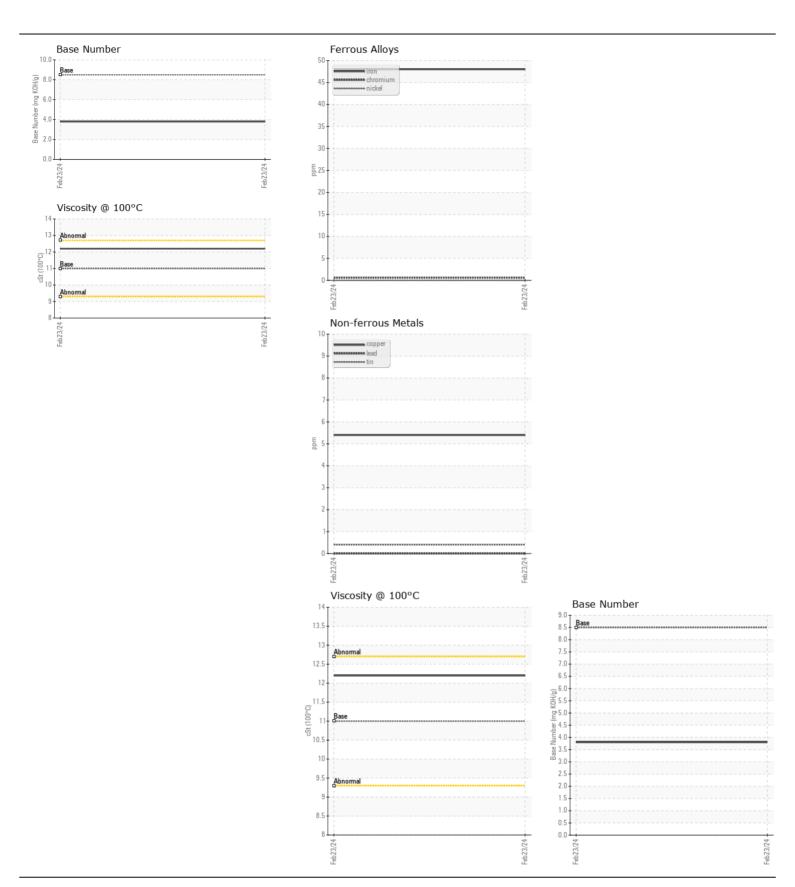
**WEAR** CONTAMINATION **FLUID CONDITION**  **NORMAL NORMAL NORMAL** 

Machine Id

1819

Component Diesel Engine

SHELL ROTELLA T 10W30 ( QTS)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		WC0827834		
Resample at the next service interval to monitor. Please specify the component make and model with your next sample.	Sample Date		Client Info		23 Feb 2024		
	Machine Age	hrs	Client Info		13250		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				NORMAL		
WEAR	Iron	ppm	ASTM D5185m	>100	48		
	Chromium	ppm	ASTM D5185m		<1		
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m	>3	0		
	Aluminum	ppm	ASTM D5185m		5		
	Lead	ppm	ASTM D5185m		0		
	Copper	ppm	ASTM D5185m		5		
	Tin	ppm	ASTM D5185m		<1		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	nnm	ASTM D5185m	. 25	9		
CONTAMINATION	Potassium	ppm	ASTM D5185m		2		
There is no indication of any contamination in the oil.	Fuel	ppm	WC Method		<1.0		
	Water		WC Method		NEG		
			WC Method	>0.2	NEG		
	Glycol Soot %	%	*ASTM D7844	. 2	1.8		
	Nitration	Abs/cm	*ASTM D7624	>20	12.2		
	Sulfation	Abs/.1mm	*ASTM D7024		25.7		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt		*Visual	NONE	NONE		
	Appearance	scalar scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water		*Visual	>0.2	NEG		
			viodai	ZU.Z			
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2		
	Boron	ppm	ASTM D5185m	269	64		
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		
	Molybdenum	ppm	ASTM D5185m	0	42		
	Manganese	ppm	ASTM D5185m		<1		
	Magnesium	ppm	ASTM D5185m	20	259		
	Calcium	ppm	ASTM D5185m		1606		
	Phosphorus	ppm	ASTM D5185m	948	900		
	Zinc	ppm	ASTM D5185m	893	1079		
	Sulfur	ppm	ASTM D5185m		2858		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	21.8		
	Base Number (BN)	mg KOH/g	ASTM D2896	8.5	3.8		
	Visc @ 100°C	cSt	ASTM D445	11 0	12.2		







Certificate L2367

Laboratory Sample No.

**Lab Number** : 06104976 Unique Number : 10903206

: WC0827834 Test Package : FLEET

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 29 Feb 2024 : 01 Mar 2024 **Tested** 

: 01 Mar 2024 - Wes Davis Diagnosed

**CARCO TRANSPORTATION** 415 S WESTERN AVENUE

OKLAHOMA CITY, OK US 73109

Contact: VICTOR STACHONIAK

victors@carcotrans.com T: (405)239-2555

\* - 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)

F: Contact/Location: VICTOR STACHONIAK - CAROKL