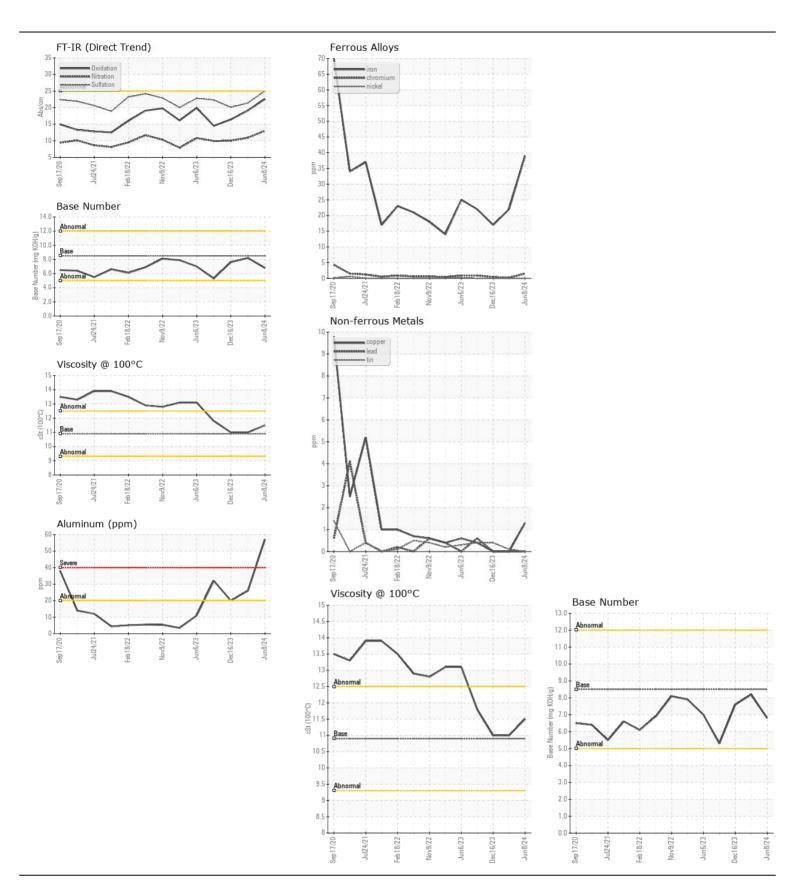
WEAR CONTAMINATION **FLUID CONDITION**

NORMAL NORMAL NORMAL

Machine Id

7829 Component Front Diesel Engine

DIESEL ENGINE OIL SAE 10W30 (QTS)							
	T4	LIOM	Mathaal	1 : : 1 / A la -a		l Bakamid	l linta m .O
RECOMMENDATION	Test Sample Number	UOM	Method Client Info	Limit/Abn	Current WC0916504	History1 WC0878555	History2 WC0878595
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.	Sample Date		Client Info		08 Jun 2024	09 Mar 2024	16 Dec 2023
	Machine Age	mls	Client Info		241747	222747	208004
	Oil Age	mls	Client Info		18997	14743	17486
	Filter Age	mls	Client Info		18997	14743	17486
	Oil Changed	11115	Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status		Client into		NORMAL	NORMAL	NORMAL
					·····		
WEAR	Iron	ppm	ASTM D5185m	>100	39	22	17
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	2	<1	<1
	Nickel	ppm	ASTM D5185m	>4	0	0	0
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	57	26	20
	Lead	ppm	ASTM D5185m	>40	0	0	0
	Copper	ppm	ASTM D5185m	>330	1	0	0
	Tin	ppm	ASTM D5185m	>15	0	<1	<1
	Vanadium	ppm	ASTM D5185m		<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	5	4	4
CONTAMINATION	Potassium	ppm	ASTM D5185m		105	39	32
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.	Fuel	ррпп	WC Method	>5	<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	70.2	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	\3	0.6	0.5	0.4
	Nitration	Abs/cm	*ASTM D7624	>20	13.0	10.9	10.0
	Sulfation	Abs/.1mm	*ASTM D7415		25.0	21.4	20.1
	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	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
ELUID CONDITION			AOTH DE LOS				
FLUID CONDITION	Sodium	ppm	ASTM D5185m	050	2	0	0
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		3	2	14
	Barium	ppm	ASTM D5185m		0	0	0
	Monganaga	ppm	ASTM D5185m	100	71	63	73
	Manganese	ppm	ASTM D5185m	150	<1 1170	0	<1
	Magnesium Calcium	ppm	ASTM D5185m		1179	999	896 1194
	Phosphorus	ppm	ASTM D5185m ASTM D5185m		1373	1134 1085	1109
	•	ppm			1200		
	Zinc Sulfur	ppm	ASTM D5185m ASTM D5185m		1528 3729	1298 3308	1286 3023
	Oxidation	ppm Abs/.1mm	*ASTM D5185ffi		22.6	19.1	16.4
					6.8	8.2	7.6
	Base Number (BN) Visc @ 100°C	cSt	ASTM D2696 ASTM D445			11.0	11.0
	VISC @ TOU-C	USI	49 INI D445	10.9	11.5	11.0	11.0







Certificate L2367

Laboratory Sample No.

: WC0916504 Lab Number : 06219180 Unique Number : 11097377

Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 24 Jun 2024

Tested : 25 Jun 2024 : 25 Jun 2024 - Wes Davis Diagnosed

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)

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