

WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL

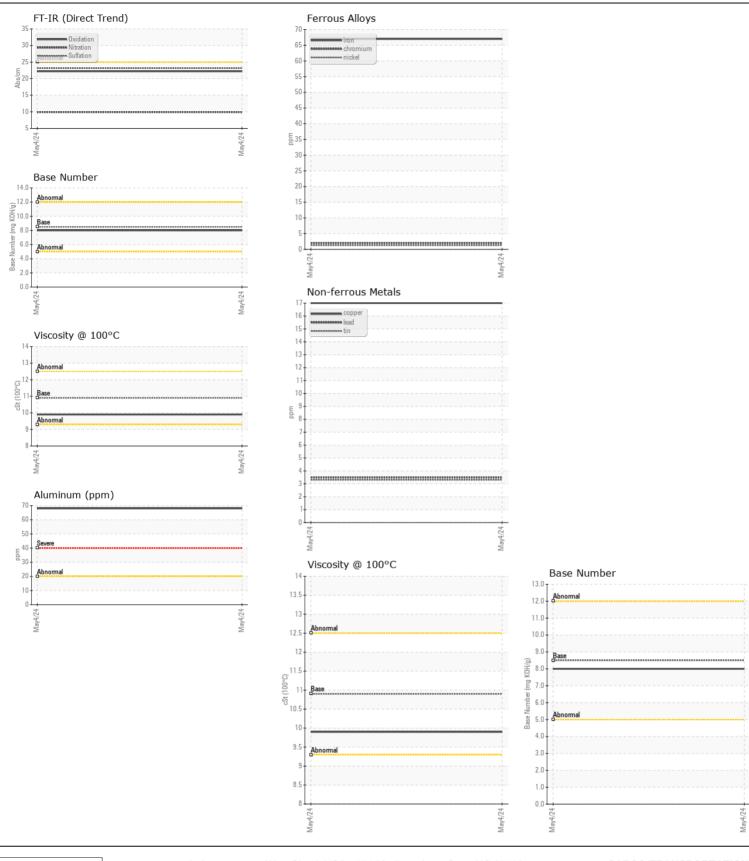
Machine Id

1711

Front Diesel Engine

DIESEL ENGINE OIL SAE 10W30 (--- QTS)

DIESEL ENGINE OIL SAE 10W30 (Q1S)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
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 Number	00	Client Info	21111071011	WC0916559		
	Sample Date		Client Info		04 May 2024		
	Machine Age	mls	Client Info		18746		
	Oil Age	mls	Client Info		18746		
	Filter Age	mls	Client Info		18746		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				NORMAL		
WEAR	Iron	ppm	ASTM D5185m		67		
Metal levels are typical for a components first oil change.	Chromium	ppm	ASTM D5185m		2		
	Nickel	ppm	ASTM D5185m	>4	1		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m		2		
	Aluminum	ppm	ASTM D5185m		68		
	Lead	ppm	ASTM D5185m		4		
	Copper	ppm	ASTM D5185m		17		
	Tin	ppm	ASTM D5185m	>15	3		
	Vanadium	ppm	ASTM D5185m	NONE	<1 NONE		
	White Metal Yellow Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	39		
	Potassium	ppm	ASTM D5185m	>20	184		
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. There is no indication of any contamination in the oil.	Fuel		WC Method	>5	<1.0		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.3		
	Nitration	Abs/cm	*ASTM D7624	>20	9.9		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	23.1		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.2	NEG		
FLUID CONDITION	Sodium	nnm	ASTM D5185m		7		
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	250	36		
	Barium	ppm	ASTM D5185m		6		
	Molybdenum	ppm	ASTM D5185m		44		
	Manganese	ppm	ASTM D5185m		6		
	Magnesium	ppm	ASTM D5185m	450	539		
	Calcium	ppm		3000	1601		
	Phosphorus	ppm	ASTM D5185m		772		
	Zinc	ppm	ASTM D5185m	1350	945		
	Sulfur	ppm	ASTM D5185m		2514		
	Oxidation	Abs/.1mm	*ASTM D7414		22.2		
	Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.0		
	Visc @ 100°C	cSt	ASTM D445	10.9	9.9		
	11 C 111 C		0				







Certificate L2367

Report Id: CARLIT [WUSCAR] 06191932 (Generated: 05/29/2024 17:22:29) Rev: 1

Laboratory Sample No.

: WC0916559 Lab Number : 06191932 Unique Number : 11048684 Test Package : FLEET

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

: 29 May 2024 Diagnosed : 29 May 2024 - Wes Davis

: 28 May 2024

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)

Contact/Location: DENNIS CATES - CARLIT

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