WEAR CONTAMINATION **FLUID CONDITION**

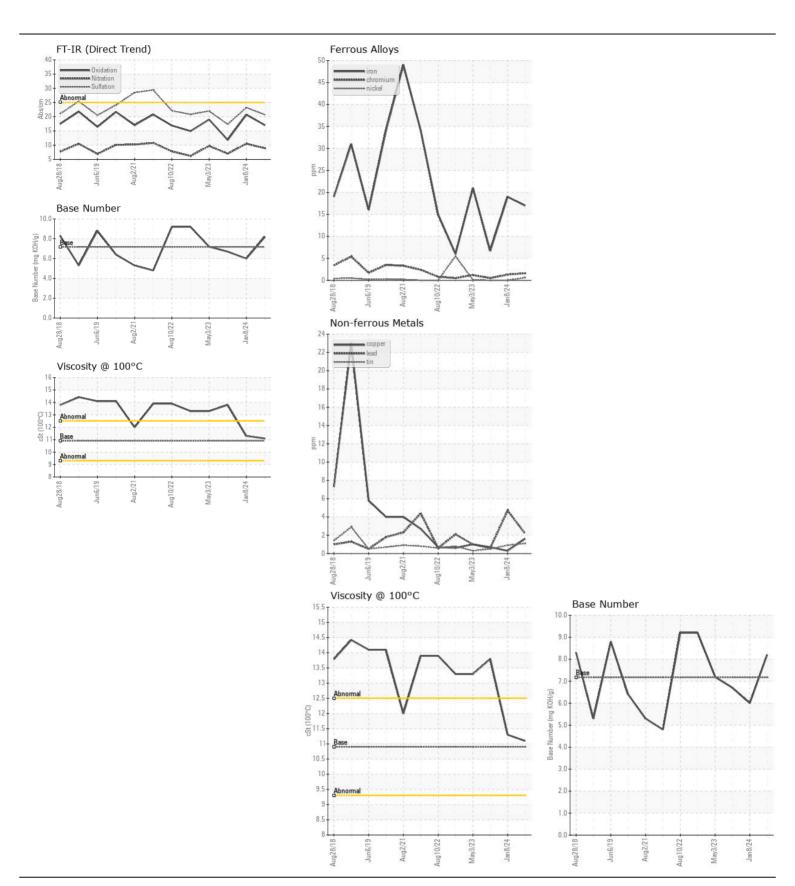
NORMAL NORMAL NORMAL

Machine Id

3806

Component
Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		WC0916561	WC0878551	WC082293
	Sample Date		Client Info		30 Apr 2024	08 Jan 2024	05 Aug 202
	Machine Age	mls	Client Info		263946	248523	224029
	Oil Age	mls	Client Info		15442	24494	4820
	Filter Age	mls	Client Info		15442	24494	4820
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
VEAD	Lana a		AOTM DE40E	00		40	
WEAR	Iron	ppm	ASTM D5185m		17	19	7
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		2	1	<1
	Nickel	ppm	ASTM D5185m		<1	0	0
	Titanium	ppm	ASTM D5185m		<1	0	<1
	Silver	ppm	ASTM D5185m		1	0	<1
	Aluminum	ppm	ASTM D5185m		4	4	2
	Lead	ppm	ASTM D5185m		2	5	<1
	Copper	ppm	ASTM D5185m		2	<1	<1
	Tin	ppm	ASTM D5185m	>15	1	<1	<1
	Vanadium	ppm	ASTM D5185m	NONE	<1	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	5	5	4
	Potassium	ppm	ASTM D5185m	>20	8	6	5
There is no indication of any contamination in the oil.	Fuel		WC Method		<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>6	0.3	0.4	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	8.9	10.5	7.0
	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.7	23.2	17.3
	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	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
THE CONDITION							
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2	<1	2
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		1	5	24
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		1	0	<1
	Molybdenum	ppm	ASTM D5185m		61	59	21
	Manganese	ppm	ASTM D5185m	470	<1	<1	<1
	Magnesium	ppm	ASTM D5185m		979	928	127
	Calcium	ppm	ASTM D5185m		1086	1204	2198
	Phosphorus	ppm	ASTM D5185m		1041	1142	941
	Zinc	ppm	ASTM D5185m	1030	1251	1323	1175
	Sulfur	ppm	ASTM D5185m	05	3153	3048	4181
	Oxidation	Abs/.1mm	*ASTM D7414	>25	17.0	20.7	11.8
	Base Number (BN)	ma 1/011/	ACTAI DOGGO	7 4 7	8.2	6.0	6.7







Certificate L2367

Report Id: CARLIT [WUSCAR] 06191933 (Generated: 05/29/2024 17:22:37) Rev: 1

Laboratory Sample No.

Lab Number : 06191933 Unique Number : 11048685 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0916561

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

Received : 28 May 2024 **Tested**

: 29 May 2024 Diagnosed : 29 May 2024 - Wes Davis **CARCO TRANSPORTATION**

3403 EAST ROOSEVELT ROAD LITTLE ROCK, AR

US 72206

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

* - 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

F: