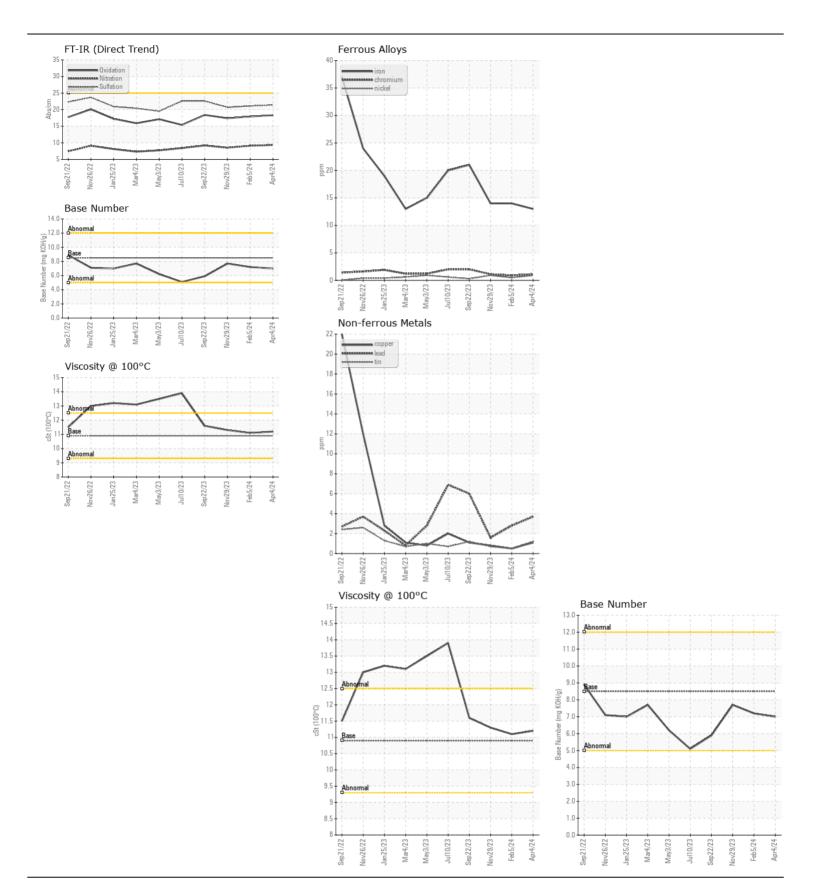
WEAR CONTAMINATION **FLUID CONDITION**

NORMAL NORMAL NORMAL

Machine Id 1995

Component
Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	Hietonya	History
RECOMMENDATION	Sample Number	UUIVI	Client Info	LIIIII/AUN	WC0916490	History1 WC0854000	History2 WC085405
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		04 Apr 2024		29 Nov 202
	Machine Age	mls	Client Info		281786	249250	216591
	Oil Age	mls	Client Info		32538	32662	23792
	Filter Age	mls	Client Info		32538	32662	23792
	Oil Changed	11110	Client Info		Changed	Changed	Change
	Filter Changed		Client Info		Changed	Changed	Change
	Sample Status				NORMAL	NORMAL	ATTENTIO
WEAR	Iron	ppm	ASTM D5185m		13	14	14
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		1	<1	1
	Nickel	ppm	ASTM D5185m	>4	<1	<1	<1
	Titanium	ppm	ASTM D5185m		<1	<1	<1
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		4	4	4
	Lead	ppm	ASTM D5185m		4	3	2
	Copper	ppm	ASTM D5185m		1	<1	<1
	Tin	ppm	ASTM D5185m	>15	1	<1	<1
	Vanadium	ppm	ASTM D5185m	NONE	0	<1 NONE	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NON
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NON
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	5	6	5
	Potassium	ppm	ASTM D5185m	>20	8	8	11
There is no indication of any contamination in the oil.	Fuel		WC Method	>5	<1.0	<1.0	0.6
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.3	0.3	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	9.3	9.1	8.5
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.4	21.1	20.7
	Silt	scalar	*Visual	NONE	NONE	NONE	NON
	Debris	scalar	*Visual	NONE	NONE	NONE	NON
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NON
	Appearance	scalar	*Visual	NORML	NORML	NORML	NOR
	Odor	scalar	*Visual	NORML	NORML	NORML	NOR
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		<1	1	<1
LOID CONDITION	Boron	ppm	ASTM D5105m	250	<1	<1	<1
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	3
	Molybdenum	ppm	ASTM D5185m		63	62	59
	Manganese	ppm	ASTM D5185m	100	<1	0	<1
	Magnesium	ppm	ASTM D5185m	450	960	1075	942
	Calcium	ppm	ASTM D5185m		1082	1107	1126
	Phosphorus	ppm	ASTM D5185m		1054	1104	1033
	Zinc	ppm	ASTM D5185m		1248	1382	1255
	Sulfur	ppm	ASTM D5185m		3127	3187	3236
	Oxidation	Abs/.1mm	*ASTM D7414		18.3	17.9	17.4
	Base Number (BN)				7.0	7.2	7.7
	Visc @ 100°C	cSt	ASTM D445		11.2	11.1	11.3







Certificate L2367

Laboratory Sample No.

Lab Number : 06155164

: WC0916490 Unique Number : 10990587 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 19 Apr 2024

Tested : 22 Apr 2024 Diagnosed : 22 Apr 2024 - 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)

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