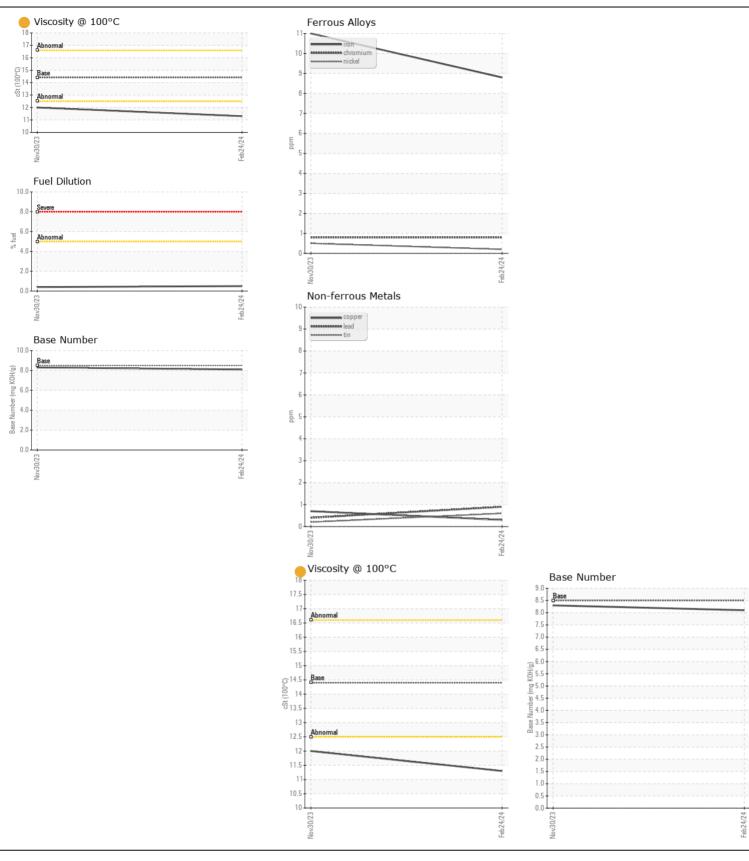
WEAR CONTAMINATION **FLUID CONDITION**

NORMAL NORMAL ATTENTION

Machine Id 2076

Component Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		WC0854003	WC0878579	
	Sample Date		Client Info		24 Feb 2024	30 Nov 2023	
	Machine Age	mls	Client Info		46405	30619	
	Oil Age	mls	Client Info		15786	6619	
	Filter Age	mls	Client Info		15786	6619	
	Oil Changed		Client Info		N/A	N/A	
	Filter Changed		Client Info		N/A	N/A	
	Sample Status				ATTENTION	NORMAL	
MEAD	lron	nnm	ACTM DE10Em	. 100		44	
WEAR	Iron	ppm	ASTM D5185m		9	11	
All component wear rates are normal.	Chromium Nickel	ppm	ASTM D5185m		<1	<1	
	Titanium	ppm	ASTM D5185m ASTM D5185m	>4	<1	<1 <1	
	Silver	ppm		. 0	0	0	
	Aluminum	ppm	ASTM D5185m ASTM D5185m		3	3	
	Lead	ppm	ASTM D5185m		ა <1	ە <1	
	Copper	ppm	ASTM D5185m		<1	<1	
	Tin	ppm	ASTM D5185m		<1	<1	
	Vanadium	ppm	ASTM D5185m	7.0	0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m		4	4	
Fuel content negligible. There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		3	7	
	Fuel	%	ASTM D3524		0.5	0.4	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844		0.1	0.2	
	Nitration	Abs/cm	*ASTM D7624	>20	8.1	7.5	
	Sulfation	Abs/.1mm	*ASTM D7415		19.1	19.7	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor Emulsified Water	scalar	*Visual	NORML >0.2	NORML NEG	NORML NEG	
		Scalai	*Visual	>0.2		INLG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2	2	
	Boron	ppm	ASTM D5185m	250	2	23	
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	Barium	ppm	ASTM D5185m	10	0	3	
	Molybdenum	ppm	ASTM D5185m	100	62	61	
	Manganese	ppm	ASTM D5185m		0	<1	
	Magnesium	ppm	ASTM D5185m	450	1012	737	
	Calcium	ppm	ASTM D5185m		1160	1313	
	Phosphorus	ppm	ASTM D5185m	1150	1143	1023	
	Zinc	ppm	ASTM D5185m		1318	1236	
	Sulfur	ppm	ASTM D5185m		3531	3247	
	Oxidation	Abs/.1mm	*ASTM D7414		15.9	15.7	
	Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.1	8.3	
	Visc @ 100°C	cSt	ASTM D445	14 4	11.3	12.0	







Laboratory Sample No.

Lab Number : 06121482 Unique Number : 10930315

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0854003 Received

Tested Diagnosed Test Package: FLEET (Additional Tests: FuelDilution, PercentFuel)

: 22 Mar 2024

: 18 Mar 2024

: 22 Mar 2024 - Don Baldridge

US 72206 Contact: DENNIS CATES denniscates@carcotrans.com T: (800)967-0777

CARCO TRANSPORTATION

LITTLE ROCK, AR

3403 EAST ROOSEVELT ROAD

* - 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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