

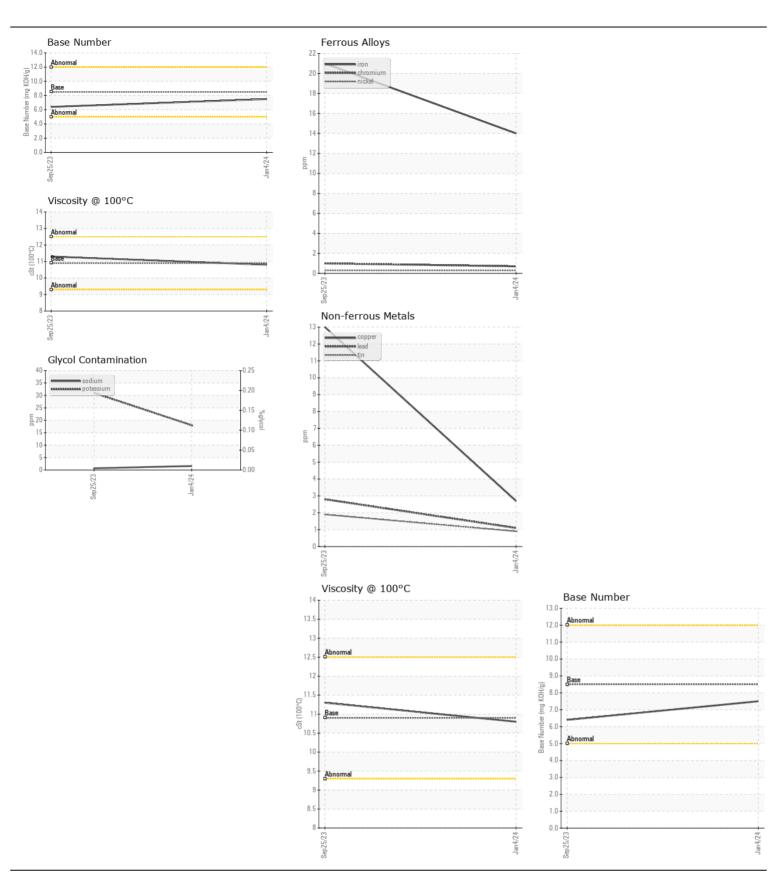
**WEAR** CONTAMINATION **FLUID CONDITION**  **NORMAL NORMAL NORMAL** 

Machine Id 1789

Diesel Engine

DIESEL	ENGINE	OIL SAE	: 10W30	( QTS)
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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Pagample at the payt garden interval to manifer	Sample Number		Client Info		WC0886848	WC0852777	
Resample at the next service interval to monitor.	Sample Date		Client Info		04 Jan 2024	25 Sep 2023	
	Machine Age	mls	Client Info		28533	61022	
	Oil Age	mls	Client Info		28533	35691	
	Filter Age	mls	Client Info		28533	35691	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	NORMAL	
WEAR	Iron	ppm	ASTM D5185m	>100	14	21	
	Chromium	ppm	ASTM D5185m	>20	<1	1	
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1	<1	
	Titanium	ppm	ASTM D5185m		0	0	
	Silver	ppm	ASTM D5185m	>3	0	0	
	Aluminum	ppm	ASTM D5185m		3	10	
	Lead	ppm	ASTM D5185m		1	3	
	Copper	ppm	ASTM D5185m		3	13	
	Tin	ppm	ASTM D5185m		<1	2	
	Vanadium	ppm	ASTM D5185m		0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m		7	12	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		18	31	
There is no indication of any contamination in the oil.	Fuel		WC Method		<1.0	<1.0	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol	%	*ASTM D2982		NEG	NEG	
	Soot %	%	*ASTM D7844		0.2	0.2	
	Nitration	Abs/cm	*ASTM D7624	>20	8.4	9.1	
	Sulfation	Abs/.1mm	*ASTM D7415		19.6	21.1	
	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	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2	<1	
	Boron	ppm	ASTM D5185m	250	25	2	
The BN result indicates that there is suitable alkalinity remaining in the	Barium	ppm	ASTM D5185m		0	0	
oil. The condition of the oil is suitable for further service.	Molybdenum	ppm	ASTM D5185m		79	60	
	Manganese	ppm	ASTM D5185m		<1	<1	
	Magnesium	ppm	ASTM D5185m	450	928	810	
	Calcium	ppm	ASTM D5185m		1027	1217	
	Phosphorus	ppm	ASTM D5185m		1018	982	
	Zinc	ppm	ASTM D5185m	1350	1234	1229	
	Sulfur	ppm	ASTM D5185m		2883	3151	
	Oxidation	Abs/.1mm	*ASTM D7414		16.0	17.5	
	Base Number (BN)				7.5	6.4	
	Visc @ 100°C	cSt	ASTM D445		10.8	11.3	







Laboratory Sample No. Lab Number Unique Number : 10832049

: WC0886848 : 06060667

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 16 Jan 2024 Diagnosed

: 17 Jan 2024 Diagnostician : Jonathan Hester

Test Package : FLEET ( Additional Tests: Glycol )

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)

**CARCO TRANSPORTATION** 

2801 MIDLAND BLVD. FORT SMITH, AR US 72904 Contact: RON BALL

rball@carcotrans.com T: (479)441-3228