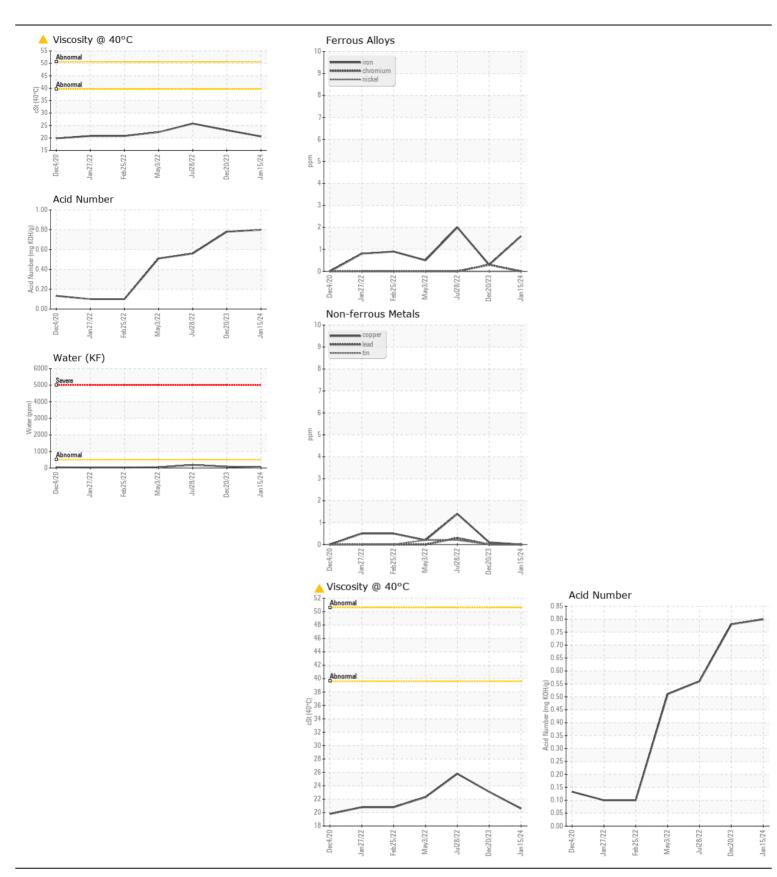
WEAR CONTAMINATION FLUID CONDITION

NORMAL **ABNORMAL ABNORMAL**

Machine Id **TR-2**

lydraulic System not provided} (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
ILCOMMILITURATION	Sample Number	OOW	Client Info	LITTIU/ NOTI	WC06062683	,	WC0560511
We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.	Sample Date		Client Info		15 Jan 2024	20 Dec 2023	28 Jul 2022
	Machine Age	hrs	Client Info		0	0	0
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		N/A	N/A	N/A
	Filter Changed		Client Info		N/A	N/A	N/A
	Sample Status				ABNORMAL	ABNORMAL	ABNORMA
VEAR	Iron	ppm	ASTM D5185m		2	<1	2
All component wear rates are normal	Chromium	ppm	ASTM D5185m		0	<1	0
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>20	0	0	0
	Titanium	ppm	ASTM D5185m		<1	<1	2
	Silver	ppm	ASTM D5185m		0	0	<1
	Aluminum	ppm	ASTM D5185m		1	3	1
	Lead	ppm	ASTM D5185m	>20	0	0	<1
	Copper	ppm	ASTM D5185m	>20	0	<1	1
	Tin	ppm	ASTM D5185m	>20	0	0	<1
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>15	<1	<1	<1
CONTAININATION	Potassium	ppm	ASTM D5185m	>20	<1	2	2
Moderate concentration of visible dirt/debris present in the oil.	Water	%	ASTM D6304		0.004	0.007	0.018
	ppm Water	ppm	ASTM D6304		44	79	183.1
	Particles >4µm	ρρ	ASTM D7647				
	Particles >6µm		ASTM D7647				
	Particles >14μm		ASTM D7647				
	Particles >21µm		ASTM D7647				
	Particles >38µm		ASTM D7647				
	Particles >71µm		ASTM D7647				
	Oil Cleanliness			>19/17/14			
	Silt	scalar	*Visual	NONE	NONE	▲ MODER	NONE
	Debris	scalar	*Visual	NONE	▲ MODER	NONE	▲ MODE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance		*Visual	NORML	NORML	NORML	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water		*Visual	>0.05	NEG	NEG	NEG
LUID CONDITION	Sodium	ppm	ASTM D5185m		0	0	<1
The AN level is acceptable for this fluid. The condition of the oil is	Boron	ppm	ASTM D5185m		0	0	1
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		0	0	0
	Manganese	ppm	ASTM D5185m		0	0	<1
	Magnesium	ppm	ASTM D5185m		<1	<1	<1
	Calcium	ppm	ASTM D5185m		<1	1	4
	Phosphorus	ppm	ASTM D5185m		307	353	234
	Zinc	ppm	ASTM D5185m		0	0	5
	Sulfur	ppm	ASTM D5185m		4390	4514	4021
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.80	0.78	0.56
	Visc @ 40°C	cSt	ASTM D445		20.6	23.1	25.8







Laboratory Sample No. Lab Number

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Unique Number : 10834065

: 06062683

: WC06062683

Recieved : 17 Jan 2024 Diagnosed : 19 Jan 2024 Diagnostician : Jonathan Hester

Test Package : IND 2 (Additional Tests: KF) 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) **METALUBE INC**

56 CYPRESS DR YOUNGSVILLE, NC US 27596

Contact: CHRIS BARNES cbarnes@metalubeinc.com

T: (919)554-3024 F: (919)554-3023