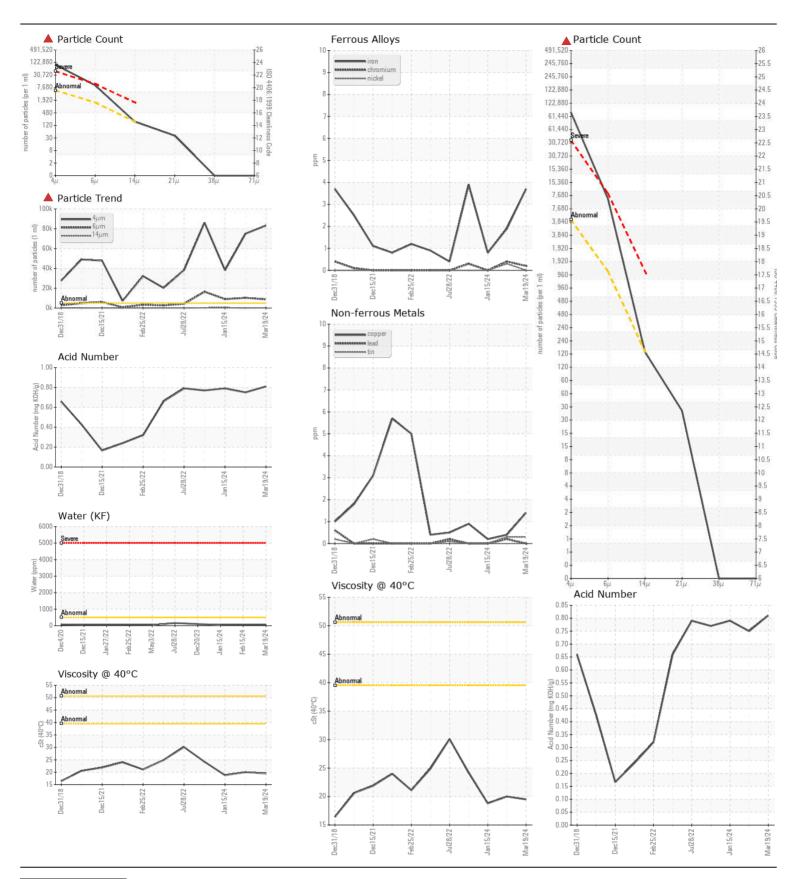


**WEAR** CONTAMINATION **FLUID CONDITION** 

**NORMAL SEVERE NORMAL** 

Machine Id

TR-4							
Component Hydraulic System							
not provided} ( GAL)							
	Toot	UOM	Mothad	Limit/Abn	Current	Lioton/1	Lioton/2
RECOMMENDATION	Test Sample Number	UOIVI	Method Client Info	LITTIL/ADTI	WC06124928	History1 WC06093615	History2 WC0606268
Little or no information is provided as to the component and lubricant being tested.	Sample Date		Client Info		19 Mar 2024	15 Feb 2024	15 Jan 202
Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant	Machine Age	hrs	Client Info		0	0	0
type and any pertinent information to allow for a more accurate assessment. Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend you service the filters on this component. Resample in 30-45 days to monitor this situation. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your next sample.	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				SEVERE	SEVERE	ABNORMA
WEAR	Iron	ppm	ASTM D5185m	>20	4	2	<1
VEAIL	Chromium	ppm	ASTM D5185m		<1	- <1	0
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>20	0	<1	0
	Titanium	ppm	ASTM D5185m		<1	<1	<1
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>20	0	0	1
	Lead	ppm	ASTM D5185m	>20	0	<1	0
	Copper	ppm	ASTM D5185m	>20	1	<1	<1
	Tin	ppm	ASTM D5185m	>20	<1	<1	0
	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
	Potassium	ppm	ASTM D5185m	>20	0	3	<1
There is a high amount of silt (particulates < 14 microns in size) present in the oil. The water content is negligible.	Water	%	ASTM D6304	>0.05	0.005	0.005	0.004
	ppm Water	ppm	ASTM D6304		58	53	41
	Particles >4µm		ASTM D7647		<b>83270</b>	<b>▲</b> 74927	<u></u> 38110
	Particles >6µm		ASTM D7647		<u> </u>	▲ 10260	8972
	Particles >14µm		ASTM D7647		158	104	<u></u> 354
	Particles >21µm		ASTM D7647		34 0	14 0	△ 53 1
	Particles >38µm Particles >71µm		ASTM D7647 ASTM D7647		0	0	0
	Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u>△</u> 24/20/14	<u>△</u> 23/21/14	<u>22/20/1</u>
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt		*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.05	NEG	NEG	NEG
LUID CONDITION	Sodium	ppm	ASTM D5185m		1	2	0
TOID CONDITION	Boron	ppm	ASTM D5185m		0	0	0
The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.	Barium	ppm	ASTM D5185m		16	23	3
	Molybdenum	ppm	ASTM D5185m		<1	0	0
	Manganese	ppm	ASTM D5185m		<1	<1	0
	Magnesium	ppm	ASTM D5185m		0	<1	0
	Calcium	ppm	ASTM D5185m		29	40	14
	Phosphorus	ppm	ASTM D5185m		256	260	289
	Zinc	ppm	ASTM D5185m		0	0	0
	Sulfur	ppm	ASTM D5185m		4329	3564	3875
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.81	0.75	0.79
	Visc @ 40°C	cSt	ASTM D445		19.5	20.0	18.8





Certificate L2367

Laboratory Sample No.

: WC06124928 Lab Number : 06124928 Unique Number: 10939079

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

: 21 Mar 2024 : 22 Mar 2024

: 22 Mar 2024 - Wes Davis Diagnosed Test Package : IND 2 ( Additional Tests: KF )

Contact: CHRIS BARNES cbarnes@metalubeinc.com T: (919)554-3024

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)

US 27596

**METALUBE INC** 

56 CYPRESS DR

F: (919)554-3023

YOUNGSVILLE, NC