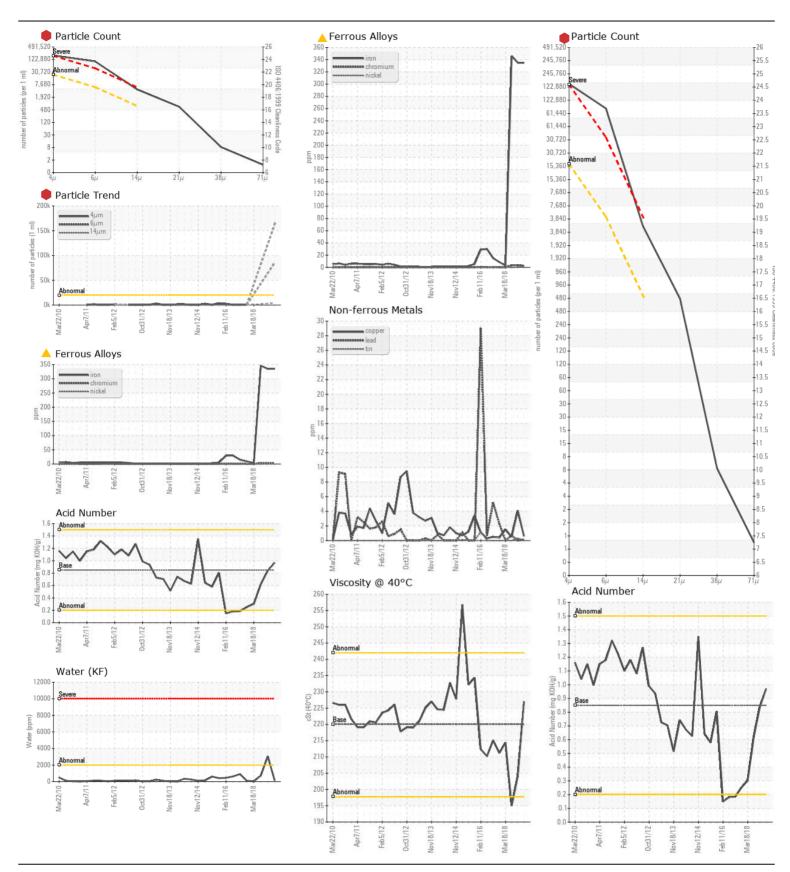
**WEAR** CONTAMINATION **FLUID CONDITION** 

**ABNORMAL SEVERE NORMAL** 

Area TM 5

## TM 5 TRANSFER DRIVE ROLL GRBX

Component <b>Gearbox</b>							
GEAR OIL ISO 220 ( GAL)							
	Toot		Mathad	Limit/Aba		Lliotomid	Lliatory
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We recommend you service the filters on this component if applicable.	Sample Number Sample Date		Client Info		RP0038121 29 Jan 2024	RP0023599 24 May 2023	RP05263964
We recommend an early resample to monitor this condition.	Machine Age	bro	Client Info		0	0	25 May 2021 0
, '	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed	hrs	Client Info		N/A	N/A	N/A
	Filter Changed		Client Info		N/A N/A	N/A N/A	N/A
	Sample Status		Ollerit IIIIO		SEVERE	SEVERE	ABNORMAL
WEAR	PQ		ASTM D8184		141	42	
WLAN	Iron	ppm	ASTM D5185m	>200	△ 335	<u>→</u> 335	<b>△</b> 346
Gear wear is indicated.	Chromium	ppm	ASTM D5185m		2	4	3
	Nickel	ppm	ASTM D5185m		<1	<1	0
	Titanium	ppm	ASTM D5105m	>10	<1	<1	<1
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>25	2	2	<1
	Lead	ppm	ASTM D5185m		<u>-</u> <1	0	<1
	Copper	ppm	ASTM D5185m		<1	4	<1
	Tin	ppm	ASTM D5185m		0	<1	0
	Vanadium	ppm	ASTM D5185m	7 20	0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>50	6	<u></u> 107	6
CONTAININATION	Potassium	ppm	ASTM D5185m		2	0	0
There is a high amount of particulates present in the oil.	Water	%	ASTM D6304		0.013	<b>△</b> 0.308	0.072
	ppm Water	ppm	ASTM D6304		130	<u></u> 3080	721.1
	Particles >4µm		ASTM D7647		<b>162585</b>		
	Particles >6µm		ASTM D7647	>5000	<b>85289</b>		
	Particles >14µm		ASTM D7647	>640	93917		
	Particles >21µm		ASTM D7647	>160	<b>9</b> 591		
	Particles >38µm		ASTM D7647	>40	7		
	Particles >71µm		ASTM D7647	>10	1		
	Oil Cleanliness		ISO 4406 (c)	>21/19/16	<b>25/24/19</b>		
	Silt	scalar	*Visual	NONE	NONE	MODER	NONE
	Debris	scalar	*Visual	NONE	NONE	▲ MODER	▲ MODER
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	MILKY	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.2	NEG	0.2%	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		0	3	4
The ANI level is accompable for this first The condition of the city	Boron	ppm	ASTM D5185m	50	19	6	13
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m	15	0	3	5
	Molybdenum	ppm	ASTM D5185m	15	<1	<1	<1
	Manganese	ppm	ASTM D5185m		2	3	2
	Magnesium	ppm	ASTM D5185m		2	2	3
	Calcium	ppm	ASTM D5185m	50	7	11	20
	Phosphorus	ppm		350	356	365	257
	Zinc	ppm	ASTM D5185m		57	127	114
	Acid Number (AN)	0	ASTM D8045		0.97	0.84	0.619
	Visc @ 40°C	cSt	ASTM D445	220	227	204	195





Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** 

: RP0038121 : 06074721

: 10856812

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 30 Jan 2024 Recieved Diagnosed : 01 Feb 2024 Diagnostician : Jonathan Hester

Test Package : IND 2 ( Additional Tests: PQ, PrtCount ) 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)

Kimberly-Clark - Mobile - TM 5

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