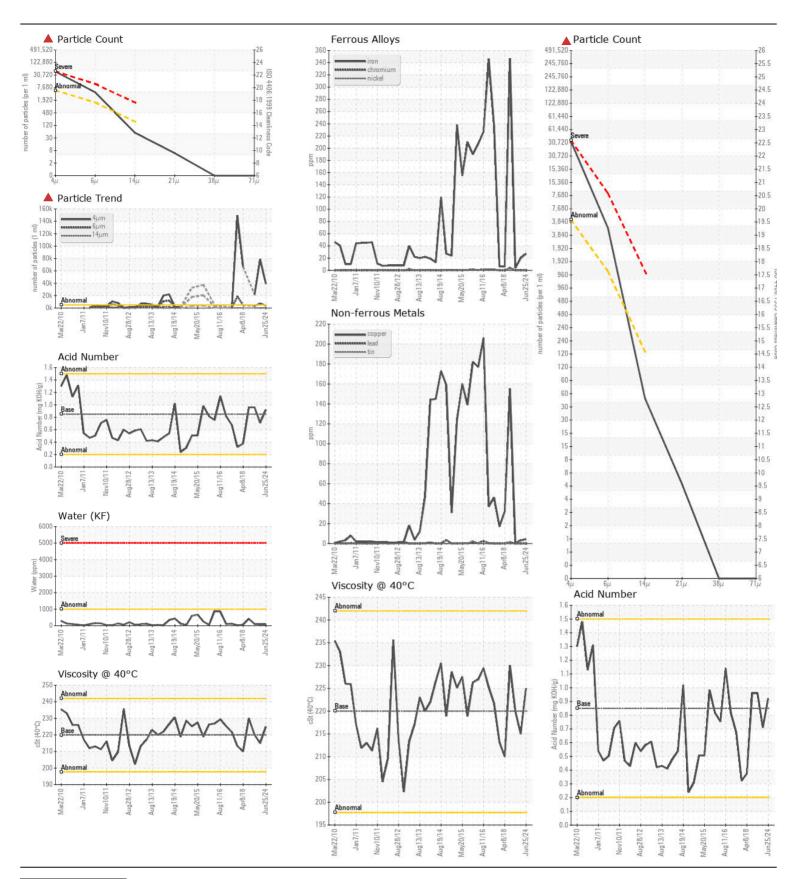
**WEAR** CONTAMINATION **FLUID CONDITION**  **NORMAL SEVERE NORMAL** 

TM 5

## TM 5 - 7 and 8 VACUUM PUMP Pump

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
RECOMMENDATION	Sample Number	UCIVI	Client Info	LIIIIUADII	RP0030494	RP0038117	RP0023596
No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Date		Client Info		25 Jun 2024	29 Jan 2024	24 May 2023
	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				SEVERE	SEVERE	SEVERE
WEAR	PQ		ASTM D8184		14	21	12
· · · · · · · · · · · · · · · · · · ·	Iron	ppm	ASTM D5185m	>90	27	20	4
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>5	0	<1	0
	Nickel	ppm	ASTM D5185m	>5	0	<1	0
	Titanium	ppm	ASTM D5185m	>3	0	<1	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m		2	2	1
	Lead	ppm	ASTM D5185m		0	0	0
	Copper	ppm	ASTM D5185m		4	3	<1
	Tin	ppm	ASTM D5185m	>9	0	<1	0
	Vanadium	ppm	ASTM D5185m	NONE	0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
<u></u>	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>60	6	3	<1
There is a high constant of ailt (newtoolston, 14 missans in airs)	Potassium	ppm	ASTM D5185m	>20	2	2	0
There is a high amount of silt (particulates < 14 microns in size) present in the oil.	Water	%	ASTM D6304		0.007	0.008	0.010
	ppm Water	ppm	ASTM D6304		76	85	102.8
	Particles >4µm		ASTM D7647		▲ 39046	▲ 78788 ▲ <b>7</b> 8788	<b>▲</b> 22113
	Particles >6µm		ASTM D7647		<b>4</b> 034	<b>▲</b> 7227	▲ 3281
	Particles >14µm		ASTM D7647		47	85	<b>▲</b> 170
	Particles >21µm		ASTM D7647 ASTM D7647		5 0	13	34
	Particles >38µm Particles >71µm		ASTM D7647 ASTM D7647		0	0	0
	Oil Cleanliness			>19/17/14	-	<u>△</u> 23/20/14	▲ 22/19/15
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORMI
	Odor	scalar	*Visual	NORML	NORML	NORML	NORMI
	Emulsified Water	scalar	*Visual	>.1	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		1	0	1
I LOID CONDITION	Boron	ppm	ASTM D5185m	50	1	0	0
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Barium	ppm		15	0	0	0
	Molybdenum	ppm	ASTM D5185m		0	<1	0
	Manganese	ppm	ASTM D5185m		<1	0	<1
	Magnesium	ppm	ASTM D5185m	50	<1	1	1
	Calcium	ppm	ASTM D5185m	50	23	24	<1
	Phosphorus	ppm	ASTM D5185m		467	386	413
	Zinc	ppm	ASTM D5185m		16	3	14
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.92	0.71	0.96
	Visc @ 40°C	cSt	ASTM D445	220	225	215	220





Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : RP0030494 Lab Number

: 06221169

Received **Tested** Unique Number: 11099366 Diagnosed Test Package: IND 2 (Additional Tests: PQ, PrtCount)

: 26 Jun 2024

: 27 Jun 2024

: 27 Jun 2024 - Don Baldridge

Certificate L2367

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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