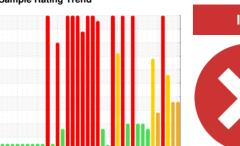


## **PROBLEM SUMMARY**

## Sample Rating Trend



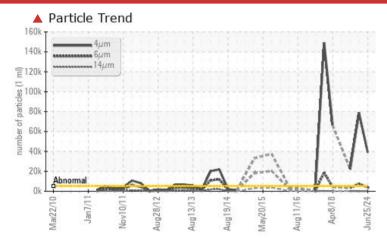


## TM 5 - 7 and 8 VACUUM PUMP

Compone **Pump** 

GEAR OIL ISO 220 (--- GAL)

## COMPONENT CONDITION SUMMARY



## RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS									
Sample Status		SEVERE	SEVERE	SEVERE					
Particles >4µm	ASTM D7647 >5	<b>39046</b>	<b>▲</b> 78788	<b>22113</b>					
Particles >6µm	ASTM D7647 >13	<b>4034</b>	<b>▲</b> 7227	▲ 3281					
Oil Cleanliness	ISO 4406 (c) >19	9/17/14 <b>4 22/19/13</b>	<b>2</b> 3/20/14	<b>2</b> 2/19/15					

Customer Id: KIMMOBTM5 Sample No.: RP0030494 Lab Number: 06221169 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:

Don Baldridge +1 don.b505@comcast.net

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

## **RECOMMENDED ACTIONS**

There are no recommended actions for this sample.

## HISTORICAL DIAGNOSIS

## 29 Jan 2024 Diag: Jonathan Hester

ISO



No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



#### 24 May 2023 Diag: Don Baldridge

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



#### WEAR



25 May 2021 Diag: Angela Borella

We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample. We were unable to perform a particle count due to a high concentration of particles present in this sample. NOTE: Performing ferrography analysis may provide us with more detailed information regarding this units wear condition. Copper and iron ppm levels are severe. Aluminum, chromium and nickel ppm levels are abnormal. Moderate concentration of visible dirt/debris present in the oil. There is a moderate amount of visible silt present in the sample. The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear.





## **OIL ANALYSIS REPORT**

## Sample Rating Trend





# TM 5

# TM 5 - 7 and 8 VACUUM PUMP

Pump

GEAR OIL ISO 220 (--- GAL)

## DIAGNOSIS

#### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

## Wear

All component wear rates are normal.

## Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

## **Fluid Condition**

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORM	ΙΔΤΙΩΝ	method	limit/base	current	history1	history2
Sample Number	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Client Info	mm bacc	RP0030494	RP0038117	RP0023596
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
Oil Changed	1110	Client Info		N/A	N/A	N/A
Sample Status				SEVERE	SEVERE	SEVERE
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		14	21	12
Iron	ppm	ASTM D5185m	>90	27	20	4
Chromium	ppm	ASTM D5185m	>5	0	<1	0
Nickel	ppm	ASTM D5185m		0	<1	0
Titanium	ppm	ASTM D5185m	>3	0	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>7	2	2	1
Lead	ppm		>12	0	0	0
Copper	ppm	ASTM D5185m	>30	4	3	<1
Tin	ppm	ASTM D5185m	>9	0	<1	0
Antimony	ppm	ASTM D5185m	75			
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
	ррпп		12 22 //	-		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	1	0	0
Barium	ppm	ASTM D5185m	15	0	0	0
Molybdenum	ppm	ASTM D5185m	15	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	350	467	386	413
Zinc	ppm	ASTM D5185m	100	16	3	14
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>60	6	3	<1
Sodium	ppm	ASTM D5185m		1	0	1
Potassium	ppm	ASTM D5185m	>20	2	2	0
Water	%	ASTM D6304	>.1	0.007	0.008	0.010
ppm Water	ppm	ASTM D6304	>1000	76	85	102.8
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<b>39046</b>	<b>▲</b> 78788	<b>22113</b>
Particles >6µm		ASTM D7647	>1300	<b>4034</b>	<b>▲</b> 7227	▲ 3281
Particles >14μm		ASTM D7647	>160	47	85	<b>1</b> 70
Particles >21µm		ASTM D7647	>40	5	13	34
Particles >38µm		ASTM D7647	>10	0	1	0
Particles >71μm		ASTM D7647		0	0	0
		ISO 4406 (c)				

**FLUID DEGRADATION** 



## **OIL ANALYSIS REPORT**







Certificate 12367

Laboratory Sample No. Lab Number

: 06221169 Unique Number : 11099366

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

: 26 Jun 2024 **Tested** Diagnosed

: 27 Jun 2024 : 27 Jun 2024 - Don Baldridge

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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