

PROBLEM SUMMARY

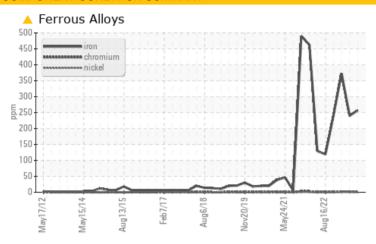
TM 6 Machine Id REEL DRUM GRBX

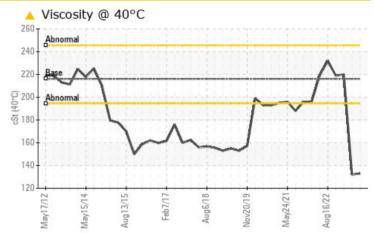
Component **Gearbox**

ROYAL PURPLE SYNERGY 90/220 (--- GAL)



COMPONENT CONDITION SUMMARY





RECOMMENDATION

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.

PROBLEMATIC TEST RESULTS									
Sample Status				ABNORMAL	SEVERE	SEVERE			
Iron	ppm	ASTM D5185m	>200	<u> </u>	<u>^</u> 240	▲ 373			
Debris	scalar	*Visual	NONE	MODER	LIGHT	LIGHT			
Visc @ 40°C	cSt	ASTM D445	216.1	133	<u></u> 132	220			

Customer Id: KIMMOBTM6 Sample No.: RP0034423 Lab Number: 05932856 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Doug Bogart +1 (800)237-1369 x4016 dougb@wearcheckusa.com

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

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Filter			?	We recommend you service the filters on this component if applicable.
Alert			?	We were unable to perform a particle count due to a high concentration of particles present in this sample.

HISTORICAL DIAGNOSIS

24 May 2023 Diag: Don Baldridge

ISO



We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. The iron level is abnormal. All other component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The oil viscosity is lower than normal. Confirm oil type. The AN level is acceptable for this fluid.



21 Feb 2023 Diag: Don Baldridge

ISO



We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. The iron level is abnormal. All other 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.

view report

06 Nov 2022 Diag: Angela Borella

ISO



We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. The iron level is abnormal. All other 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.



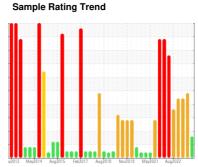


OIL ANALYSIS REPORT

TM 6 **REEL DRUM GRBX** Component

Gearbox

ROYAL PURPLE SYNERGY 90/220 (--- GAL)





DIAGNOSIS

Recommendation

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.

Wear

Gear wear is indicated.

Contamination

Moderate concentration of visible dirt/debris present in the oil.

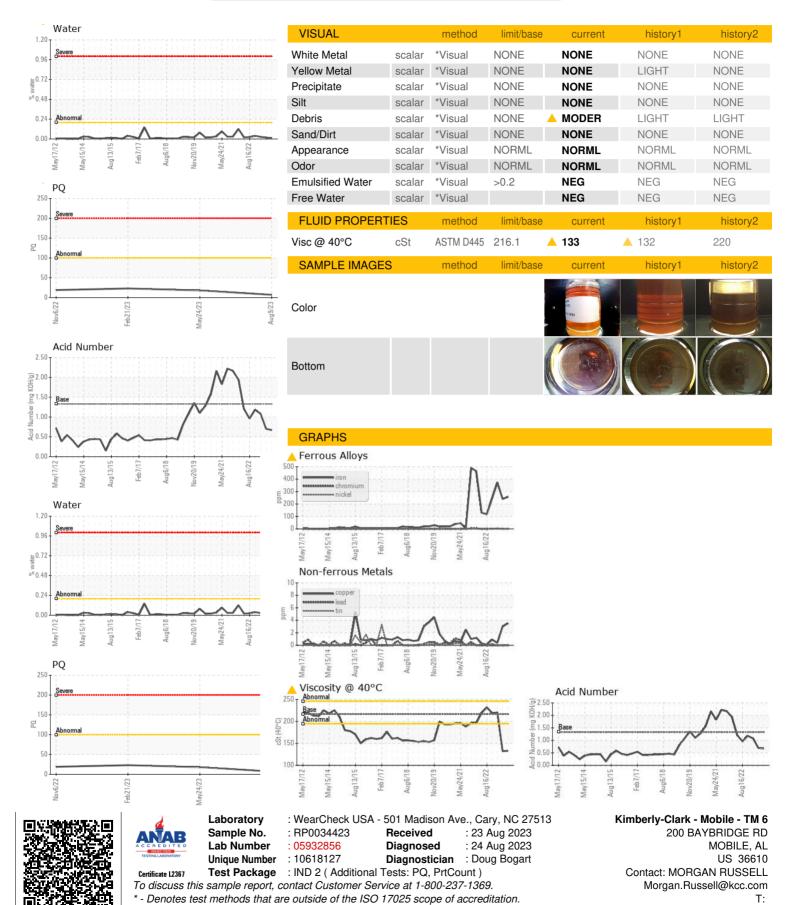
▲ Fluid Condition

The oil viscosity is lower than normal. Confirm oil type. The AN level is acceptable for this fluid.

w2012 May2014 Aug2015 Feb2017 Aug2018 Nov2019 May2021 Aug2022						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		RP0034423	RP0023575	RP0030375
Sample Date		Client Info		09 Aug 2023	24 May 2023	21 Feb 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	SEVERE	SEVERE
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		7	18	23
Iron	ppm	ASTM D5185m	>200	<u> </u>	<u>4</u> 240	▲ 373
Chromium	ppm	ASTM D5185m	>15	1	2	2
Nickel	ppm	ASTM D5185m	>15	<1	<1	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	3	3
Lead	ppm	ASTM D5185m	>100	0	0	0
Copper	ppm	ASTM D5185m	>200	4	3	<1
Tin	ppm	ASTM D5185m	>25	0	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		5	6	19
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	<1	<1
Manganese	ppm	ASTM D5185m		4	4	5
Magnesium	ppm	ASTM D5185m		5	8	8
Calcium	ppm	ASTM D5185m		4	6	5
Phosphorus	ppm	ASTM D5185m	370	403	414	432
Zinc	ppm	ASTM D5185m	070	153	159	60
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	5	4	9
Sodium	ppm	ASTM D5185m	00	<1	2	<1
Potassium	ppm	ASTM D5185m	>20	2	<1	1
Water	%	ASTM D6304		0.009	0.018	0.026
ppm Water	ppm	ASTM D6304	>2000	92.7	181.6	260.5
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000		72622	128937
Particles >6µm		ASTM D7647	>5000		7770	6635
Particles >14µm		ASTM D7647	>640		311	268
Particles >21μm		ASTM D7647	>160		79	72
Particles >38μm		ASTM D7647	>40		2	0
Particles >71µm		ASTM D7647	>10		0	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16		23/20/15	2 4/20/15
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.33	0.67	0.70	1.08



OIL ANALYSIS REPORT



Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

F: (251)452-6335

T: