

PROBLEM SUMMARY

Sample Rating Trend

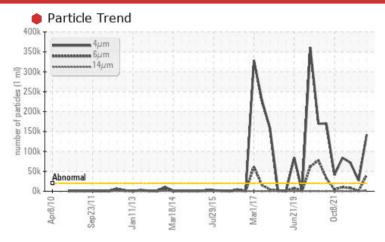
ISO

TM 11 Machine Id TM 11 WIRE TURNING ROLL REDUCER

Component **Gearbox**

GEAR OIL ISO 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.

PROBLEMATIC TEST RESULTS									
Sample Status			SEVERE	ATTENTION	SEVERE				
Particles >4µm	ASTM D7647	>20000	142109	26451	1 71404				
Particles >6μm	ASTM D7647	>5000	41621	881	8010				
Particles >14μm	ASTM D7647	>640	1895	21	52				
Particles >21µm	ASTM D7647	>160	390	5	4				
Oil Cleanliness	ISO 4406 (c)	>21/19/16	2 4/23/18	2 2/17/12	23/20/13				

Customer Id: KIMMOBTM11 Sample No.: RP0037980 Lab Number: 06074734 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 jhester@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.

HISTORICAL DIAGNOSIS

08 Aug 2023 Diag: Angela Borella

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 moderate 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 acceptable for the time in service.



05 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. 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.



30 Mar 2022 Diag: Doug Bogart

ISO



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 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.



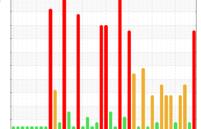


OIL ANALYSIS REPORT

Sample Rating Trend

ISO







Gearbox

GEAR OIL ISO 220 (--- GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a high amount of particulates present in the oil.

Fluid Condition

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

d2010 Sep2011 Jan2013 Mar2014 Jad2015 Mar2017 Jun2019 Oct2021							
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		RP0037980	RP0034369	RP0023577	
Sample Date		Client Info		29 Jan 2024	08 Aug 2023	05 May 2023	
Machine Age	mths	Client Info		0	0	0	
Oil Age	mths	Client Info		0	0	0	
Oil Changed		Client Info		N/A	N/A	N/A	
Sample Status				SEVERE	ATTENTION	SEVERE	
WEAR METALS		method	limit/base	current	history1	history2	
PQ		ASTM D8184		26	22	14	
Iron	ppm	ASTM D5185m	>200	104	90	86	
Chromium	ppm	ASTM D5185m	>15	<1	<1	0	
Nickel	ppm	ASTM D5185m	>15	<1	0	0	
Titanium	ppm	ASTM D5185m		<1	0	<1	
Silver	ppm	ASTM D5185m		0	0	0	
Aluminum	ppm	ASTM D5185m	>25	12	10	11	
Lead	ppm	ASTM D5185m	>100	<1	0	0	
Copper	ppm	ASTM D5185m	>200	1	<1	<1	
Tin	ppm	ASTM D5185m	>25	0	<1	0	
Vanadium	ppm	ASTM D5185m		0	0	0	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	50	14	15	14	
Barium	ppm	ASTM D5185m	15	0	19	0	
Molybdenum	ppm	ASTM D5185m	15	<1	<1	0	
Manganese	ppm	ASTM D5185m		<1	<1	<1	
Magnesium	ppm	ASTM D5185m	50	0	0	0	
Calcium	ppm	ASTM D5185m	50	1	54	0	
Phosphorus	ppm	ASTM D5185m	350	193	258	262	
Zinc	ppm	ASTM D5185m	100	3	50	0	
CONTAMINANTS	}	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>50	0	2	<1	
Sodium	ppm	ASTM D5185m		0	3	2	
Potassium	ppm	ASTM D5185m	>20	2	<1	0	
Water	%	ASTM D6304	>0.2	0.013	0.013	0.00	
ppm Water	ppm	ASTM D6304	>2000	134	139.1	0.00	
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2	
Particles >4µm		ASTM D7647	>20000	142109	▲ 26451	1 71404	
Particles >6µm		ASTM D7647	>5000	41621	881	● 8010	
Particles >14µm		ASTM D7647	>640	1895	21	52	
Particles >21µm		ASTM D7647	>160	9 390	5	4	
Particles >38µm		ASTM D7647	>40	13	0	1	
Particles >71µm		ASTM D7647	>10	1	0	1	
Oil Cleanliness		ISO 4406 (c)	>21/19/16	2 4/23/18	2 2/17/12	23/20/13	
FLUID DEGRADA	NOITA	method	limit/base	current	history1	history2	
Acid Number (AN)	ma KOH/a	ASTM D8045	0.85	1 55	1 47	1 49	

Acid Number (AN)

mg KOH/g ASTM D8045 0.85

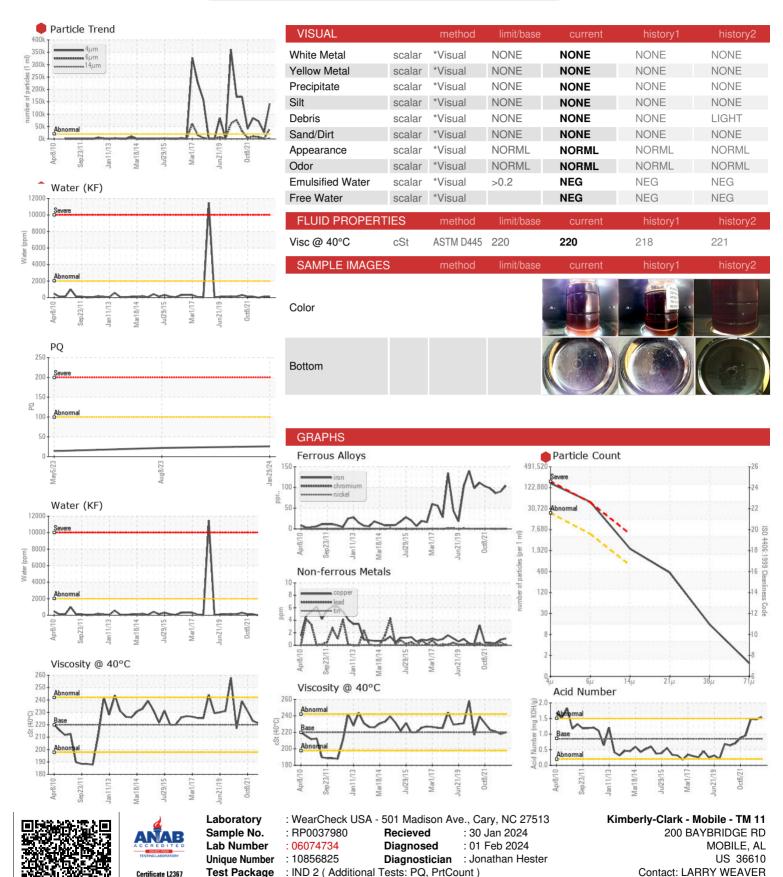
1.47

1.55

1.49



OIL ANALYSIS REPORT



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)

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T:

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