

PROBLEM SUMMARY

Sample Rating Trend
VISCOSITY

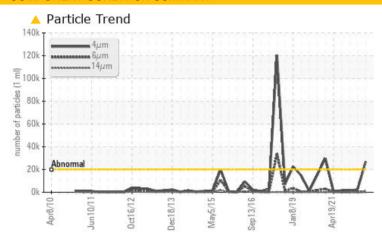


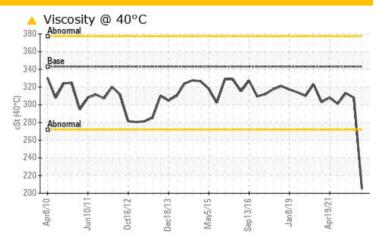
TM 11 Machine Id TM 11 YANKEE REDUCER Component

Gearbox

ROYAL PURPLE SYNERGY 140/320 (--- 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				ABNORMAL	NORMAL	NORMAL			
Particles >4µm		ASTM D7647	>20000	26895	2537	1437			
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<u>22/17/12</u>	19/15/10	18/16/13			
Visc @ 40°C	cSt	ASTM D445	343	204.9	308	313			

Customer Id: KIMMOBTM11 Sample No.: RP0034366 Lab Number: 05994350 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

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

05 May 2023 Diag: Don Baldridge

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



30 Mar 2022 Diag: Doug Bogart

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



08 Oct 2021 Diag: Doug Bogart

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY



Area TM 11 TM 11 YANKEE REDUCER

Component Gearbox

ROYAL PURPLE SYNERGY 140/320 (--- GAL)

DIAGNOSIS

Recommendation

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

All component wear rates are normal.

Contamination

There is a moderate amount of silt (particulates < 6 microns in size) present in the oil. The water content is negligible.

Fluid Condition

Viscosity of sample indicates oil is within ISO 220 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.

2010 Jun2011 Oct012 Occ2013 May2015 Sep_2016 Jun2019 Apr2021							
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		RP0034366	RP0023579	RP0016697	
Sample Date		Client Info		07 Aug 2023	05 May 2023	30 Mar 2022	
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	NORMAL	NORMAL	
WEAR METALS		method	limit/base	current	history1	history2	
PQ		ASTM D8184		22	11		
ron	ppm	ASTM D5185m	>200	21	3	5	
Chromium	ppm	ASTM D5185m	>15	<1	0	0	
Nickel	ppm	ASTM D5185m	>15	0	0	0	
Titanium	ppm	ASTM D5185m		0	<1	0	
Silver	ppm	ASTM D5185m		0	0	<1	
Aluminum	ppm	ASTM D5185m	>25	<1	1	2	
Lead	ppm		>100	0	0	<1	
Copper		ASTM D5185m	>200	<1	0	<1	
Tin	ppm	ASTM D5185m	>25	<1	0	<1	
	ppm					< 1	
Antimony	ppm	ASTM D5185m	>5				
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		27	22	21	
Barium	ppm	ASTM D5185m		20	0	0	
Molybdenum	ppm	ASTM D5185m		0	0	0	
Manganese	ppm	ASTM D5185m		<1	0	<1	
Magnesium	ppm	ASTM D5185m		0	0	0	
Calcium	ppm	ASTM D5185m		15	<1	2	
Phosphorus	ppm	ASTM D5185m	200	380	453	428	
Zinc	ppm	ASTM D5185m		64	0	5	
CONTAMINANTS		method	limit/base	current	history1	history2	
Silicon			>50	28	4	2	
Sodium	ppm	ASTM D5185m	>50	6	0	<1	
	ppm		. 20	-			
Potassium	ppm	ASTM D5185m	>20	2	0 010	0	
Water	%	ASTM D6304	>0.2	0.014	0.016	0.013	
opm Water	ppm	ASTM D6304	>2000	143.2	161.2	139.7	
		mothod	limit/base	current	history1	history2	
FLUID CLEANLIN	IESS	method					
Particles >4µm	IESS	ASTM D7647	>20000	△ 26895	2537	1437	
Particles >4µm Particles >6µm			>20000	757	2537 177	1437 374	
Particles >4μm Particles >6μm	1233	ASTM D7647	>20000		2537		
Particles >4μm Particles >6μm Particles >14μm		ASTM D7647 ASTM D7647	>20000 >5000 >640	757	2537 177	374	
Particles >4µm		ASTM D7647 ASTM D7647 ASTM D7647	>20000 >5000 >640	757 26	2537 177 8	374 53	
Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm		ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>20000 >5000 >640 >160 >40	757 26 7	2537 177 8 2	374 53 11	
Particles >4µm Particles >6µm Particles >14µm Particles >21µm		ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>20000 >5000 >640 >160 >40	757 26 7 1	2537 177 8 2 0	374 53 11	



OIL ANALYSIS REPORT

