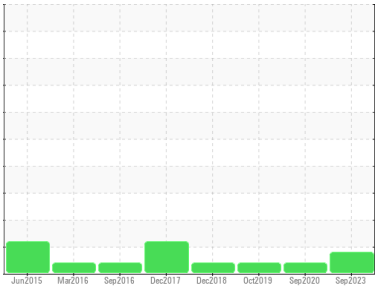
PROBLEM SUMMARY

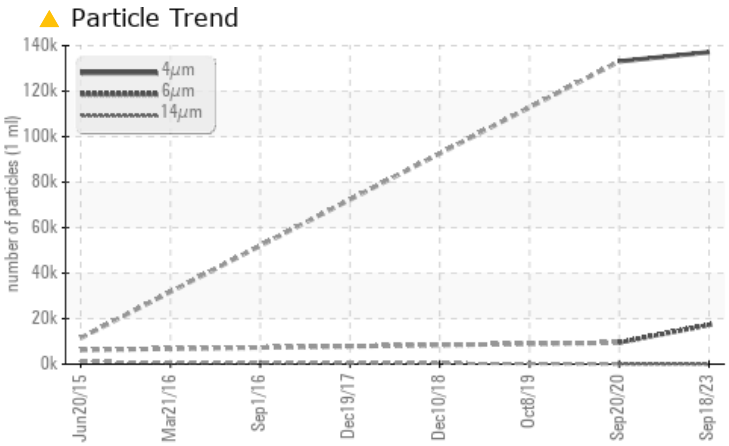
Sample Rating Trend



ISO

Machine Id
TY/NY/2RM-GB
Component
Gearbox
Fluid
ROYAL PURPLE THERMYL-GLYDE 320 (2800 LTR)

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	ATTENTION	ABNORMAL
Particles >6µm		ASTM D7647	>5000	▲ **17241**	▲ 9447	---
Oil Cleanliness		ISO 4406 (c)	>--/19/16	▲ **24/21/12**	▲ 24/20/13	---

Customer Id: JPOWERBD
Sample No.: WC0695241
Lab Number: 05963535
Test Package: PLANT

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

20 Sep 2020 Diag: Doug Bogart

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 suitable for further service.

view report

08 Oct 2019 Diag: Jonathan Hester

VIS DEBRIS

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 metal particles present in this sample. Please note that this is a corrected copy for laboratory data updates.All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

view report

10 Dec 2018 Diag: Jonathan Hester

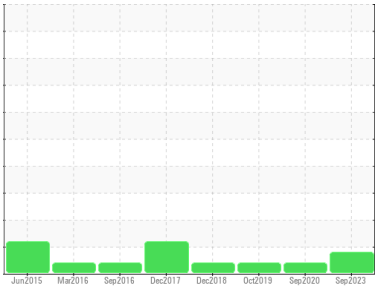
VIS DEBRIS

We recommend you service the filters on this component. 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.All component wear rates are normal. High concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

OIL ANALYSIS REPORT

Sample Rating Trend



ISO

Machine Id
TY/NY/2RM-GB
Component
Gearbox
Fluid
ROYAL PURPLE THERMYL-GLYDE 320 (2800 LTR)

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 INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0695241**	WC0407659	WCI2327187
Sample Date		Client Info		**18 Sep 2023**	20 Sep 2020	08 Oct 2019
Machine Age	mths	Client Info		**0**	0	0
Oil Age	mths	Client Info		**97**	61	52
Oil Changed		Client Info		**N/A**	N/A	N/A
Sample Status				**ABNORMAL**	ATTENTION	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	**41**	44	43
Chromium	ppm	ASTM D5185m	>15	**<1**	<1	<1
Nickel	ppm	ASTM D5185m	>15	**<1**	<1	<1
Titanium	ppm	ASTM D5185m		**<1**	0	0
Silver	ppm	ASTM D5185m		**0**	<1	<1
Aluminum	ppm	ASTM D5185m	>25	**2**	3	3
Lead	ppm	ASTM D5185m	>100	**37**	53	48
Copper	ppm	ASTM D5185m	>200	**104**	83	71
Tin	ppm	ASTM D5185m	>25	**<1**	<1	0
Antimony	ppm	ASTM D5185m	>5	**---**	1099	1077
Vanadium	ppm	ASTM D5185m		**0**	0	0
Cadmium	ppm	ASTM D5185m		**0**	0	<1

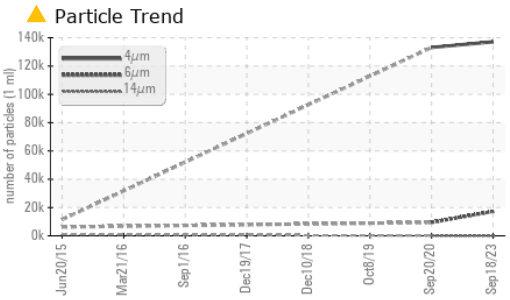
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**0**	5	<1
Barium	ppm	ASTM D5185m		**0**	0	<1
Molybdenum	ppm	ASTM D5185m		**<1**	<1	0
Manganese	ppm	ASTM D5185m		**<1**	<1	<1
Magnesium	ppm	ASTM D5185m		**0**	1	<1
Calcium	ppm	ASTM D5185m		**6**	13	12
Phosphorus	ppm	ASTM D5185m		**130**	128	116
Zinc	ppm	ASTM D5185m		**1288**	1249	1102
Sulfur	ppm	ASTM D5185m		**14067**	12242	11369

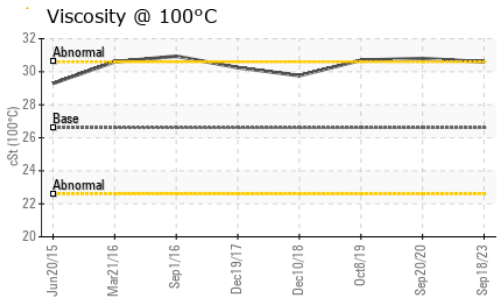
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	**2**	3	4
Sodium	ppm	ASTM D5185m		**<1**	0	<1
Potassium	ppm	ASTM D5185m	>20	**0**	0	0

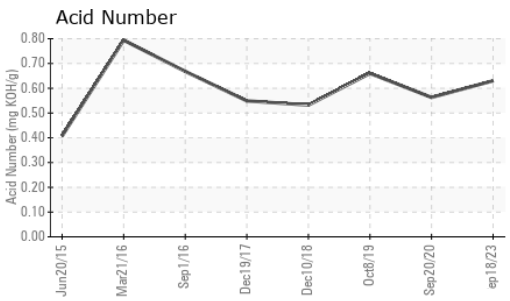
FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		**137113**	133096	---
Particles >6µm		ASTM D7647	>5000	▲ **17241**	▲ 9447	---
Particles >14µm		ASTM D7647	>640	**30**	52	---
Particles >21µm		ASTM D7647	>160	**6**	9	---
Particles >38µm		ASTM D7647	>40	**0**	0	---
Particles >71µm		ASTM D7647	>10	**0**	0	---
Oil Cleanliness		ISO 4406 (c)	>--/19/16	▲ **24/21/12**	▲ 24/20/13	---

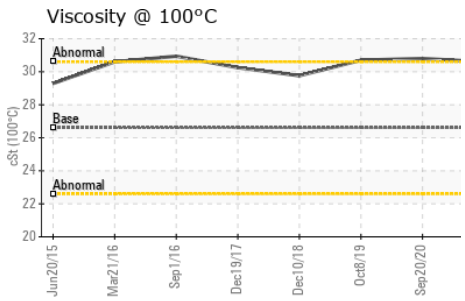
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.63**	0.563	0.660

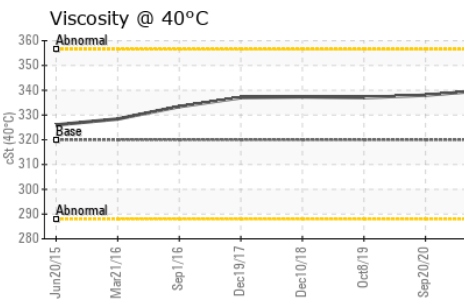
OIL ANALYSIS REPORT





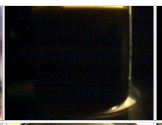
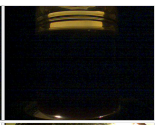
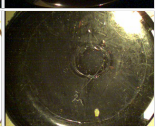




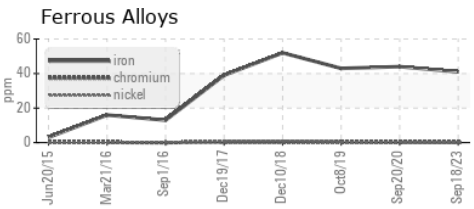


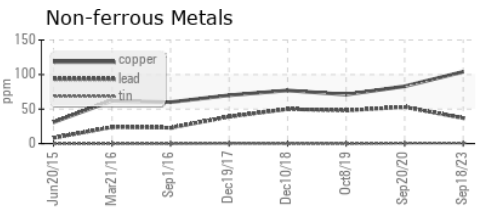
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	▲ MODER
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Appearance	scalar	*Visual	NORML	**NORML**	NORML	NORML
Odor	scalar	*Visual	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	**NEG**	NEG	NEG
Free Water	scalar	*Visual		**NEG**	NEG	NEG

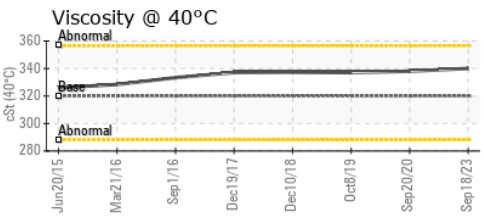
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	320	**340**	338	337
Visc @ 100°C	cSt	ASTM D445	26.6	**30.6**	30.8	30.7
Viscosity Index (VI)	Scale	ASTM D2270	110	**125**	126	126

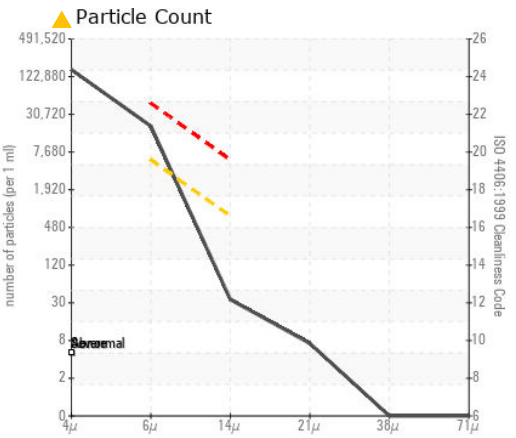
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

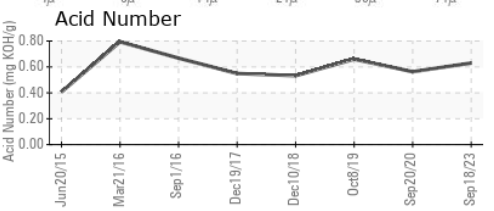
GRAPHS











Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0695241 **Received** : 28 Sep 2023
Lab Number : 05963535 **Diagnosed** : 29 Sep 2023
Unique Number : 10670086 **Diagnostician** : Don Baldridge
Test Package : PLANT (Additional Tests: KV100, VI)

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)

J/POWER-BD

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Mitsuo_Miyahara@jpower.co.jp
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