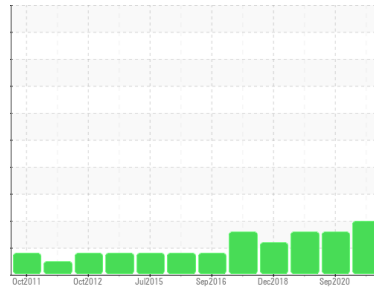




# PROBLEM SUMMARY

Sample Rating Trend



**WEAR**



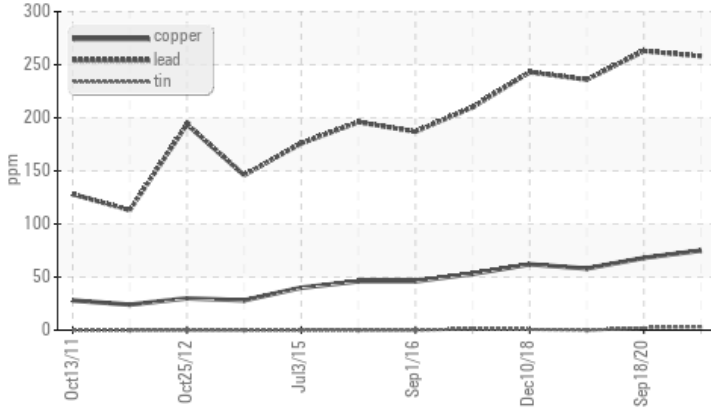
Machine Id  
**TY/NY/3FM-GB**

Component  
**Gearbox**

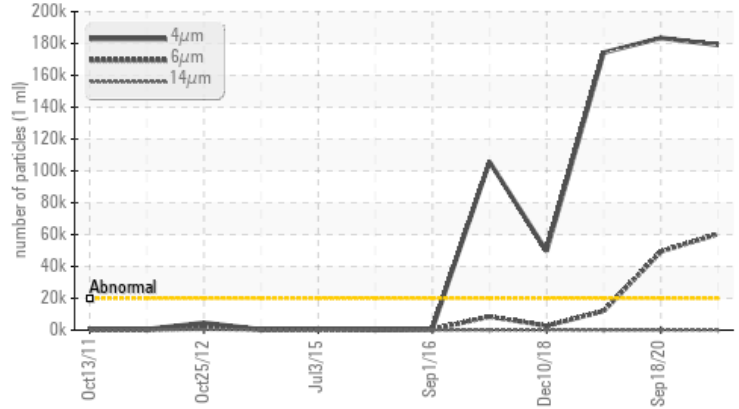
Fluid  
**ROYAL PURPLE THERMYL-GLYDE 320 (--- GAL)**

## COMPONENT CONDITION SUMMARY

### ▲ Non-ferrous Metals



### ▲ Particle Trend



## RECOMMENDATION

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

## PROBLEMATIC TEST RESULTS

Sample Status			<b>ABNORMAL</b>	ABNORMAL	ABNORMAL
Lead	ppm	ASTM D5185m >100	▲ <b>258</b>	▲ 263	▲ 236
Particles >4µm		ASTM D7647 >20000	▲ <b>179096</b>	▲ 183495	▲ 174284
Particles >6µm		ASTM D7647 >5000	▲ <b>60379</b>	▲ 49364	▲ 12095
Oil Cleanliness		ISO 4406 (c) >21/19/16	▲ <b>25/23/13</b>	▲ 25/23/13	▲ 25/21/13

Customer Id: JPOWERBD  
Sample No.: WC0695239  
Lab Number: 05963533  
Test Package: PLANT



To manage this report scan the QR code

To discuss the diagnosis or test data:  
Don Baldrige +1  
[don.b505@comcast.net](mailto:don.b505@comcast.net)

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

## RECOMMENDED ACTIONS

*There are no recommended actions for this sample.*

## HISTORICAL DIAGNOSIS

### 18 Sep 2020 Diag: Doug Bogart

#### WEAR



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



### 08 Oct 2019 Diag: Jonathan Hester

#### WEAR



No corrective action is recommended at this time. Resample at the next service interval to monitor. Please note that this is a corrected copy for laboratory data and diagnostic updates. The lead 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



### 10 Dec 2018 Diag: Jonathan Hester

#### WEAR



No corrective action is recommended at this time. Resample at the next service interval to monitor. The lead level is abnormal. All other component wear rates are normal. There is a high amount of silt (particulates < 6 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.

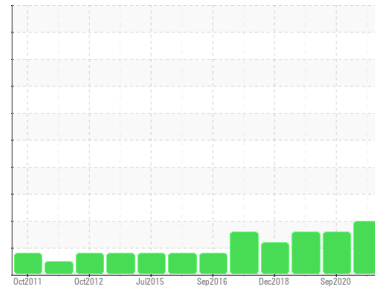
view report





# OIL ANALYSIS REPORT

Sample Rating Trend



**WEAR**



Machine Id  
**TY/NY/3FM-GB**

Component  
**Gearbox**

Fluid  
**ROYAL PURPLE THERMYL-GLYDE 320 (--- GAL)**

## DIAGNOSIS

### ▲ Recommendation

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

### ▲ Wear

The lead level is abnormal. All other 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		<b>WC0695239</b>	WC0407657	WC12327186
Sample Date	Client Info		<b>18 Sep 2023</b>	18 Sep 2020	08 Oct 2019
Machine Age	mths	Client Info	<b>0</b>	0	0
Oil Age	mths	Client Info	<b>149</b>	113	102
Oil Changed	Client Info		<b>N/A</b>	N/A	N/A
Sample Status			<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >200	<b>7</b>	6	5
Chromium	ppm	ASTM D5185m >15	<b>0</b>	0	0
Nickel	ppm	ASTM D5185m >15	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m	<b>2</b>	3	0
Aluminum	ppm	ASTM D5185m >25	<b>2</b>	2	2
Lead	ppm	ASTM D5185m >100	<b>▲ 258</b>	▲ 263	▲ 236
Copper	ppm	ASTM D5185m >200	<b>75</b>	68	58
Tin	ppm	ASTM D5185m >25	<b>3</b>	2	0
Antimony	ppm	ASTM D5185m >5	<b>---</b>	1359	1337
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>0</b>	6	<1
Barium	ppm	ASTM D5185m	<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185m	<b>0</b>	0	<1
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	<b>0</b>	3	2
Calcium	ppm	ASTM D5185m	<b>&lt;1</b>	10	2
Phosphorus	ppm	ASTM D5185m	<b>319</b>	295	272
Zinc	ppm	ASTM D5185m	<b>0</b>	6	3
Sulfur	ppm	ASTM D5185m	<b>15333</b>	13350	12451

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >50	<b>2</b>	2	3
Sodium	ppm	ASTM D5185m	<b>&lt;1</b>	0	<1
Potassium	ppm	ASTM D5185m >20	<b>0</b>	0	2

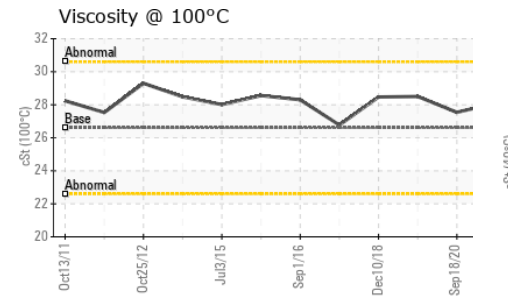
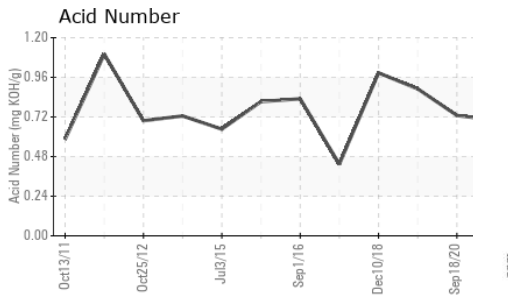
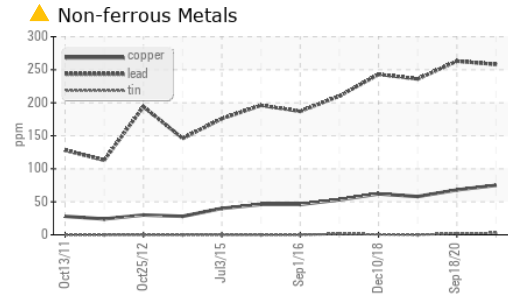
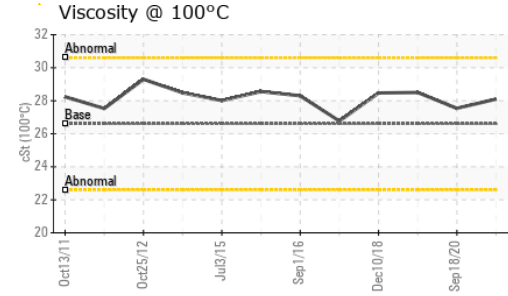
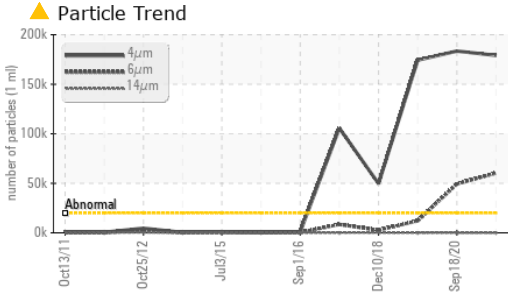
## FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>20000	<b>▲ 179096</b>	▲ 183495	▲ 174284
Particles >6µm	ASTM D7647	>5000	<b>▲ 60379</b>	▲ 49364	▲ 12095
Particles >14µm	ASTM D7647	>640	<b>47</b>	51	42
Particles >21µm	ASTM D7647	>160	<b>8</b>	9	5
Particles >38µm	ASTM D7647	>40	<b>0</b>	0	0
Particles >71µm	ASTM D7647	>10	<b>0</b>	0	0
Oil Cleanliness	ISO 4406 (c)	>21/19/16	<b>▲ 25/23/13</b>	▲ 25/23/13	▲ 25/21/13

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>0.70</b>	0.729	0.890

# OIL ANALYSIS REPORT



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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	320	316	317
Visc @ 100°C	cSt	ASTM D445	26.6	27.54	28.5
Viscosity Index (VI)	Scale	ASTM D2270	110	116	121

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0695239 **Received** : 28 Sep 2023  
**Lab Number** : 05963533 **Diagnosed** : 29 Sep 2023  
**Unique Number** : 10670084 **Diagnostician** : Don Baldrige  
**Test Package** : PLANT ( Additional Tests: KV100, VI )

**J/POWER-BD**  
 JP  
 Contact: KENTO OKUHARA  
 Mitsuo\_Miyahara@jpower.co.jp  
 T:  
 F: x:

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)