

# PROBLEM SUMMARY

Sample Rating Trend



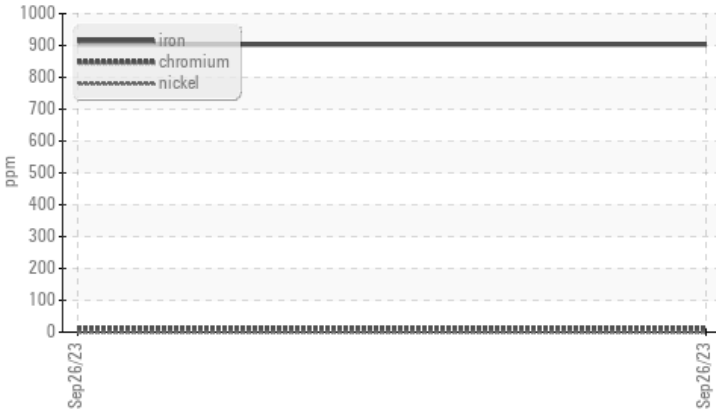
**WEAR**



Machine Id  
**02586562 ROBOT BEARINGS GREASE**  
Component  
**Grease**  
Fluid  
**KYOBO YUSHI 60 49910.54 MOLY WHITE A (--- GAL)**

## COMPONENT CONDITION SUMMARY

### ▲ Ferrous Alloys



### ▲ Additives



## RECOMMENDATION

We recommend that you re-grease the component if this has not already been done. We recommend that you confirm the lubricant being used in this application and ensure re-greasing is being done with grease. We recommend an early resample to monitor this condition.

## PROBLEMATIC TEST RESULTS

Sample Status	ABNORMAL		---	---
Iron	ppm	ASTM D5185(m) >250	▲ 903	---
Chromium	ppm	ASTM D5185(m) >10	▲ 10	---
Phosphorus	ppm	ASTM D5185(m)	▲ 2214	---
Sulfur	ppm	ASTM D5185(m)	▲ 9451	---
PrtFilter				no image

**Customer Id:** PEPPE  
**Sample No.:** CB0031580  
**Lab Number:** 02586565  
**Test Package:** GRS 1



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To discuss the diagnosis or test data:  
Bill Quesnel CLS,OMA II,MLA-III,LLA-I +1  
(289)291-4641 x4641  
[Bill.Quesnel@wearcheck.com](mailto:Bill.Quesnel@wearcheck.com)

To change component or sample information:  
Gloria Gonzalez +1 (289)291-4643 x4643  
[gloria.gonzalez@wearcheck.com](mailto:gloria.gonzalez@wearcheck.com)

## RECOMMENDED ACTIONS

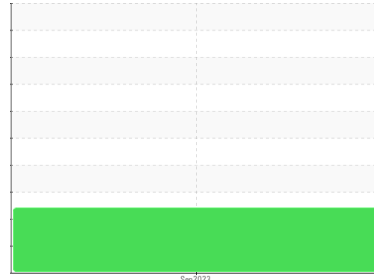
Action	Status	Date	Done By	Description
Resample	---	---	?	We recommend an early resample to monitor this condition.

## HISTORICAL DIAGNOSIS



# GREASE ANALYSIS

Sample Rating Trend



**WEAR**



Machine Id  
**02586562 ROBOT BEARINGS GREASE**

Component

**Grease**  
Fluid

**KYOBO YUSHI 60 49910.54 MOLY WHITE A (--- GAL)**

## DIAGNOSIS

### ▲ Recommendation

We recommend that you re-grease the component if this has not already been done. We recommend that you confirm the lubricant being used in this application and ensure re-greasing is being done with grease. We recommend an early resample to monitor this condition.

### ▲ Wear

Chromium and iron ppm levels are abnormal.

### ▲ Grease Condition

Additive levels indicate mixing with oil. The grease is no longer serviceable as a result of the abnormal and/or severe wear likely due to the low consistency.

### Contaminants

The consistency was too low to be measure but much less than 000. Suspect this grease has been mixed with industrial gear oil.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>CB0031580</b>	---	---
Sample Date	Client Info	<b>26 Sep 2023</b>	---	---
Machine Age	hrs	<b>0</b>	---	---
Grease Age	hrs	<b>0</b>	---	---
Grease Serviced	Client Info	<b>Not Chngd</b>	---	---
Sample Status		<b>ABNORMAL</b>	---	---

## WEAR METALS

method	limit/base	current	history1	history2	
PQ	ASTM D8184*	>200	<b>24</b>	---	---
Iron	ppm	ASTM D5185(m)	>250	<b>▲ 903</b>	---
Chromium	ppm	ASTM D5185(m)	>10	<b>▲ 10</b>	---
Nickel	ppm	ASTM D5185(m)	>5	<b>0</b>	---
Cadmium	ppm	ASTM D5185(m)		<b>0</b>	---
Titanium	ppm	ASTM D5185(m)		<b>0</b>	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	---
Lead	ppm	ASTM D5185(m)	>25	<b>0</b>	---
Copper	ppm	ASTM D5185(m)	>75	<b>1</b>	---
Tin	ppm	ASTM D5185(m)	>5	<b>1</b>	---
Silver	ppm	ASTM D5185(m)	>5	<b>0</b>	---

## ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)		<b>&lt;1</b>	---
Magnesium	ppm	ASTM D5185(m)		<b>2</b>	---
Manganese	ppm	ASTM D5185(m)		<b>5</b>	---
Molybdenum	ppm	ASTM D5185(m)		<b>2385</b>	---
Phosphorus	ppm	ASTM D5185(m)		<b>▲ 2214</b>	---
Zinc	ppm	ASTM D5185(m)		<b>796</b>	---
Antimony	ppm	ASTM D5185(m)		<b>0</b>	---

## THICKENER/SOAP

method	limit/base	current	history1	history2	
Aluminum	ppm	ASTM D5185(m)		<b>4</b>	---
Barium	ppm	ASTM D5185(m)		<b>38</b>	---
Calcium	ppm	ASTM D5185(m)		<b>209</b>	---
Sodium	ppm	ASTM D5185(m)		<b>8</b>	---
Lithium	ppm	ASTM D5185(m)		<b>647</b>	---
Sulfur	ppm	ASTM D5185(m)		<b>▲ 9451</b>	---

## CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>150	<b>42</b>	---
Potassium	ppm	ASTM D5185(m)		<b>9</b>	---

## GREASE CONDITION

method	limit/base	current	history1	history2
Grease Color	Visual*	<b>Black</b>	---	---

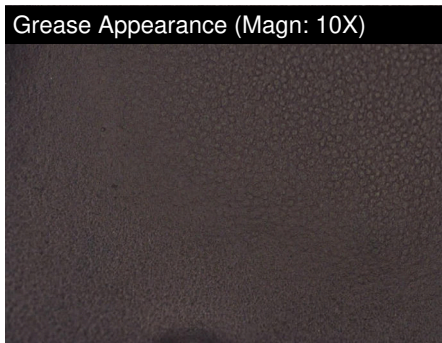
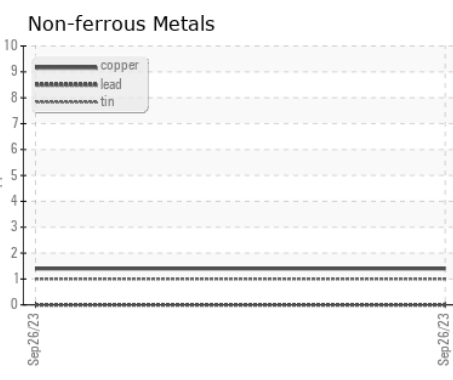
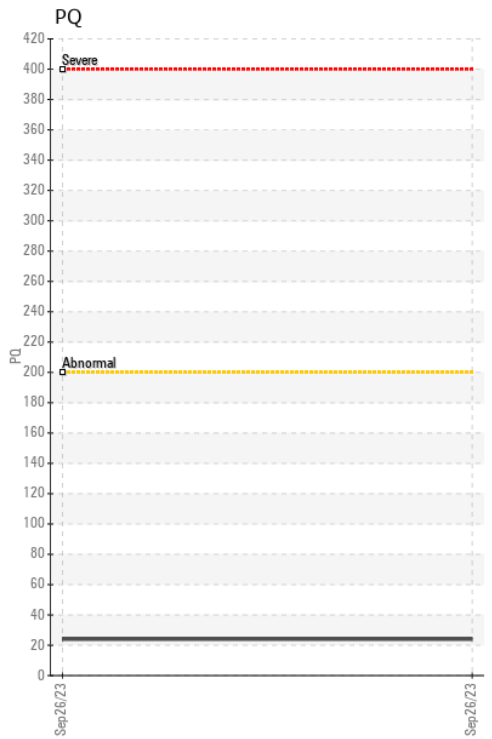
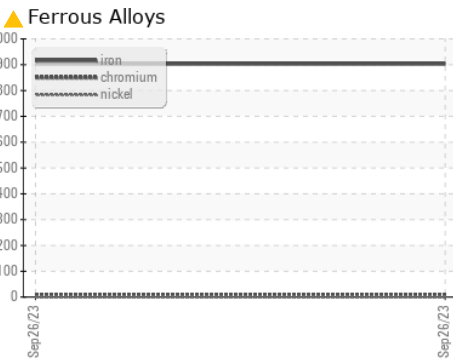
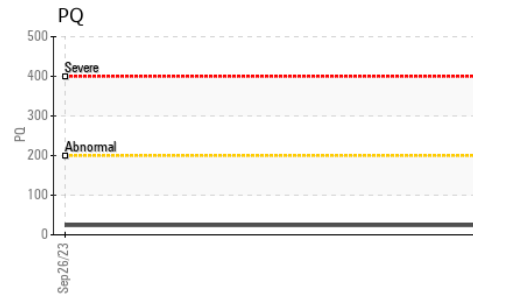
# GREASE ANALYSIS



SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				no image	no image
Bottom				no image	no image
PrtFilter				no image	no image



## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : CB0031580  
**Lab Number** : 02586565  
**Unique Number** : 5655631  
**Test Package** : GRS 1 ( Additional Tests: BottomAnalysis )

**Received** : 03 Oct 2023  
**Diagnosed** : 11 Oct 2023  
**Diagnostician** : Bill Quesnel

To discuss this sample report, contact Customer Service at 1-800-268-2131.  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.  
 Validity of results and interpretation are based on the sample and information as supplied.

**Pepsico Foods Canada**  
 34 Hunter S.W.  
 Peterborough, ON  
 CA K9J 7B2  
 Contact: Tom Mclean  
 tom.mclean@pepsico.com  
 T:  
 F: (705)876-4114