



PROBLEM SUMMARY

Sample Rating Trend

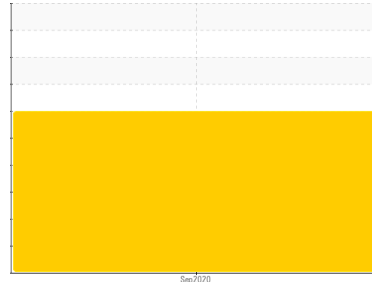
WEAR



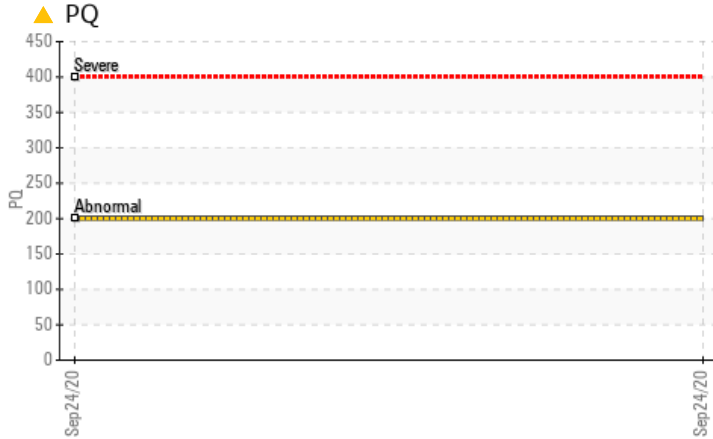
Machine Id
WS0200725MC006GS12

Component
Grease

Fluid
KLUBER KLUBERPLEX BEM 41-301 (--- GAL)



COMPONENT CONDITION SUMMARY



RECOMMENDATION

We recommend that you purge and re-grease the component if this has not already been done. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	---	---
PQ		ASTM D8184	>200	▲ 200	---	---
Ferrous Sliding	Scale 0-10	ASTM D7684		▲ 3		
Ferrous Rolling	Scale 0-10	ASTM D7684		▲ 5		
Nonferrous Sliding	Scale 0-10	ASTM D7684		▲ 2		
PrtFilter					no image	no image
Filter Image 1				no image	no image	no image
Filter Image 2				no image	no image	no image

Customer Id: CUSANY
Sample No.: WC1234567
Lab Number: 01234567
Test Package: GRS 3



To manage this report scan the QR code

To discuss the diagnosis or test data:
Bill Quesnel CLS,OMA II,MLA-III,LLA-I +1
(905)569-8600 x4641
Bill.Quesnel@wearcheck.com

To change component or sample information:
Gloria Gonzalez +1 (905)569-8600 x4643
gloria.gonzalez@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Fluid	---	---	?	We recommend that you drain the grease from the component if this has not already been done.
Resample	---	---	?	We recommend an early resample to monitor this condition.

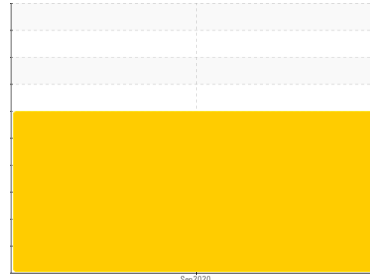
HISTORICAL DIAGNOSIS



GREASE ANALYSIS

Sample Rating Trend

WEAR



Machine Id
WS0200725MC006GS12

Component
Grease
Fluid
KLUBER KLUBERPLEX BEM 41-301 (--- GAL)

DIAGNOSIS

Recommendation

We recommend that you purge and re-grease the component if this has not already been done. We recommend an early resample to monitor this condition.

Wear

PQ levels are abnormal. Wear particle analysis indicates that the ferrous rolling, ferrous sliding and nonferrous sliding particles are abnormal. The very high ferrous density (PQ) index indicates that severe wear is occurring. The ferrous particles are comprised of low alloy steel.

Grease Condition

Linear Sweep Voltammetry (RULER – ASTM D6971) testing indicates normal levels of anti-oxidants present in the oil. The grease is no longer serviceable as a result of the abnormal and/or severe wear.

Contaminants

There is no indication of any contamination in the grease.

SAMPLE INFORMATION

	method	limit/base	current	history 1	history 2
Sample Number			WC	---	---
Sample Date			24 Sep 2020	---	---
Machine Age	hrs		0	---	---
Grease Age	hrs		0	---	---
Grease Serviced			N/A	---	---
Sample Status			ABNORMAL	---	---

WEAR METALS

	method	limit/base	current	history 1	history 2
PQ	ASTM D8184	>200	▲ 200	---	---
Iron	ppm ASTM D5185(m)	>250	12	---	---
Chromium	ppm ASTM D5185(m)	>10	<1	---	---
Nickel	ppm ASTM D5185(m)	>5	0	---	---
Cadmium	ppm ASTM D5185(m)		0	---	---
Titanium	ppm ASTM D5185(m)		0	---	---
Vanadium	ppm ASTM D5185(m)		<1	---	---
Lead	ppm ASTM D5185(m)	>25	2	---	---
Copper	ppm ASTM D5185(m)	>75	25	---	---
Tin	ppm ASTM D5185(m)	>5	0	---	---
Silver	ppm ASTM D5185(m)	>5	0	---	---

ADDITIVES

	method	limit/base	current	history 1	history 2
Boron	ppm ASTM D5185(m)	0	<1	---	---
Magnesium	ppm ASTM D5185(m)	0	<1	---	---
Manganese	ppm ASTM D5185(m)	0	<1	---	---
Molybdenum	ppm ASTM D5185(m)	625	581	---	---
Phosphorus	ppm ASTM D5185(m)	20	17	---	---
Zinc	ppm ASTM D5185(m)	150	144	---	---
Antimony	ppm ASTM D5185(m)		71	---	---

THICKENER/SOAP

	method	limit/base	current	history 1	history 2
Aluminum	ppm ASTM D5185(m)	5	5	---	---
Barium	ppm ASTM D5185(m)	0	0	---	---
Calcium	ppm ASTM D5185(m)	5	3	---	---
Sodium	ppm ASTM D5185(m)	5	2	---	---
Lithium	ppm ASTM D5185(m)	350	330	---	---
Sulfur	ppm ASTM D5185(m)	750	705	---	---

CONTAMINANTS

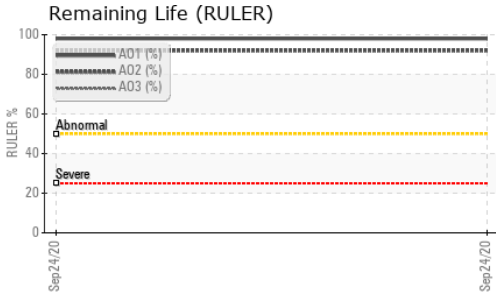
	method	limit/base	current	history 1	history 2
Silicon	ppm ASTM D5185(m)	>150	6	---	---
Potassium	ppm ASTM D5185(m)		<1	---	---
Water	% ASTM D6304	>0.1	0.044	---	---
ppm Water	ppm ASTM D6304	>1000	442.5	---	---

GREASE CONDITION

	method	limit/base	current	history 1	history 2
Grease Color	Visual	yellow	Yellow	---	---
Texture	In-house		Long fiber	---	---
NLGI Consistency	NLGI Scale SKF Method	1	1	---	---
Anti-Oxidant 1	% ASTM D6971	<25%	98	---	---
Anti-Oxidant 2	% ASTM D6971	<25%	92	---	---

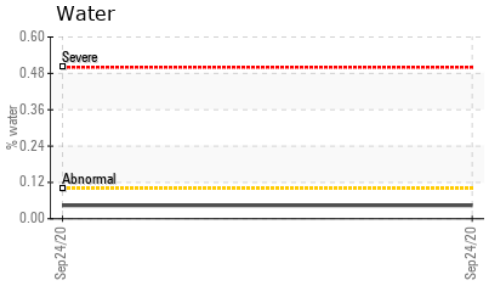
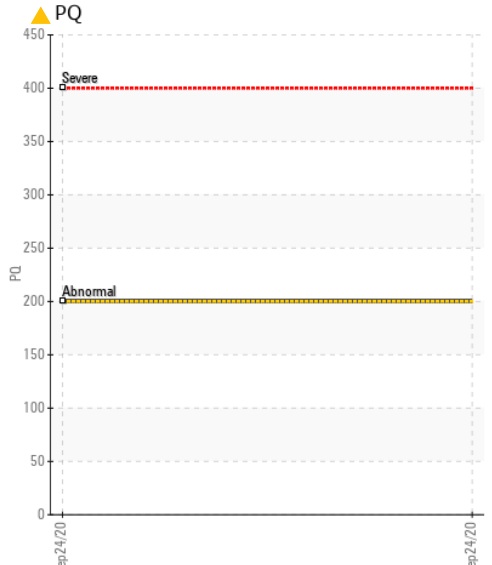
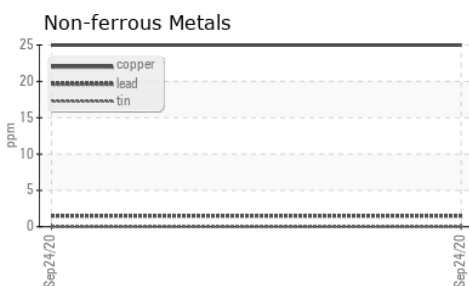
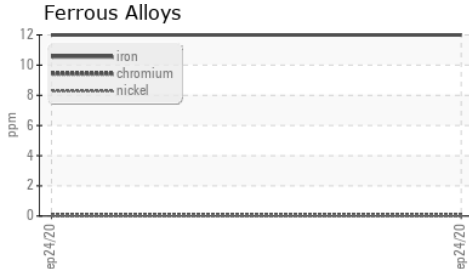


GREASE ANALYSIS



SAMPLE IMAGES	method	limit/base	current	history 1	history 2
Color				no image	no image
Bottom				no image	no image
PrtFilter				no image	no image
Filter Image 1			no image	no image	no image
Filter Image 2			no image	no image	no image

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC1234567 **Received** : 16 Oct 2020
Lab Number : 01234567 **Diagnosed** : 12 Nov 2020
Unique Number : 12345678 **Diagnostician** : Bill Quesnel
Test Package : GRS 3 (Additional Tests: BottomAnalysis)
To discuss this sample report, contact Customer Service at 1-800-268-2131.
(m) Denotes a modified test method, (e) Denotes a test conducted using an external laboratory.

Cusany Logistics Inc.
 1212 Industrial Place
 Centerville, OH
 USA 75900
 Contact: Jim Leduc
 jim.leduc@cusanylogisticsinc.com
 T: (305)555-1212
 F: (305)555-1222

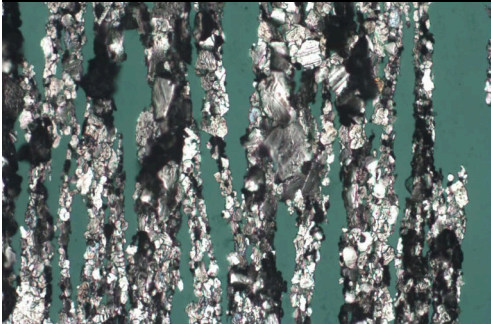


Machine Id
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Component
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KLUBER KLUBERPLEX BEM 41-301 (--- GAL)



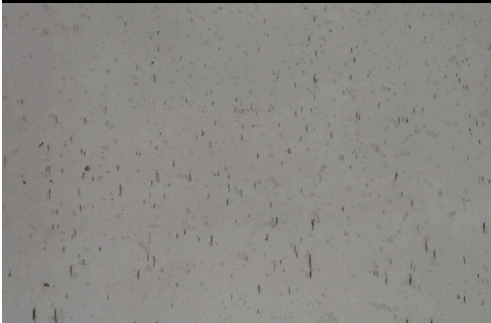
Magn: 200x Illum: BC



Magn: 50x Illum: RW



Magn: 100x Illum: RW



Magn: 200x Illum: RW



FERROGRAPHY		method	limit/base	current	history 1	history 2
Ferrous Rubbing	Scale 0-10	ASTM D7684		5		
Ferrous Sliding	Scale 0-10	ASTM D7684		3		
Ferrous Cutting	Scale 0-10	ASTM D7684				
Ferrous Rolling	Scale 0-10	ASTM D7684		5		
Ferrous Break-in	Scale 0-10	ASTM D7684				
Ferrous Spheres	Scale 0-10	ASTM D7684				
Ferrous Black Oxides	Scale 0-10	ASTM D7684		2		
Ferrous Red Oxides	Scale 0-10	ASTM D7684				
Ferrous Corrosive	Scale 0-10	ASTM D7684				
Ferrous Other	Scale 0-10	ASTM D7684				
Nonferrous Rubbing	Scale 0-10	ASTM D7684				
Nonferrous Sliding	Scale 0-10	ASTM D7684		2		
Nonferrous Cutting	Scale 0-10	ASTM D7684				
Nonferrous Rolling	Scale 0-10	ASTM D7684				
Nonferrous Other	Scale 0-10	ASTM D7684				
Carbonaceous Material	Scale 0-10	ASTM D7684				
Lubricant Degradation	Scale 0-10	ASTM D7684				
Sand/Dirt	Scale 0-10	ASTM D7684		2		
Fibres	Scale 0-10	ASTM D7684				
Spheres	Scale 0-10	ASTM D7684				
Other	Scale 0-10	ASTM D7684				

WEAR

PQ levels are abnormal. Wear particle analysis indicates that the ferrous rolling, ferrous sliding and nonferrous sliding particles are abnormal. The very high ferrous density (PQ) index indicates that severe wear is occurring. The ferrous particles are comprised of low alloy steel.

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