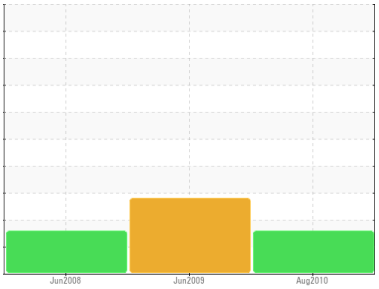
PROBLEM SUMMARY

Sample Rating Trend



VISUAL METAL

Machine Id
COALMILL-1/K1/TC
Component
Gearbox
Fluid
ISO 460 (550 LTR)

COMPONENT CONDITION SUMMARY

No relevant graphs to display

RECOMMENDATION

We were unable to perform a particle count due to a high concentration of particles present in this sample. We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				**ABNORMAL**	ABNORMAL	ABNORMAL
White Metal	scalar	*Visual	NONE	▲ **HEAVY**	▲ HEAVY	NONE
Debris	scalar	*Visual	NONE	▲ **HEAVY**	▲ HEAVY	▲ MODER

Customer Id: JPOWERBD
Sample No.: WCI2097842
Lab Number: 02692084
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

Action	Status	Date	Done By	Description
Change Filter	---	---	?	We recommend you service the filters on this component if applicable.
Alert	---	---	?	We were unable to perform a particle count due to a high concentration of particles present in this sample.

HISTORICAL DIAGNOSIS

29 Jun 2009 Diag: Doug Bogart

VISUAL METAL

We were unable to perform a particle count due to a high concentration of particles present in this sample. We recommend you service the filter/screen on this component if applicable. Resample at the next service interval to monitor.High concentration of visible metal present. All component wear rates are normal. High concentration of visible dirt/debris present in the oil. The condition of oil is suitable for further service. The viscosity index is 251.

view report

16 Jun 2008 Diag: Doug Bogart

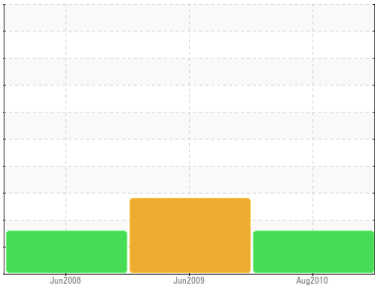
VISUAL METAL

We were unable to perform a particle count due to a high concentration of particles present in this sample. We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.High concentration of visible metal present. All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. The condition of oil is suitable for further service. The viscosity index is 251.

view report

OIL ANALYSIS REPORT

Sample Rating Trend



VISUAL METAL

Machine Id
COALMILL-1/K1/TC
Component
Gearbox
Fluid
ISO 460 (550 LTR)

DIAGNOSIS

Recommendation
We were unable to perform a particle count due to a high concentration of particles present in this sample. We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

Wear
High concentration of visible metal present. All component wear rates are normal.

Contamination
High concentration of visible dirt/debris present in the oil.

Fluid Condition
The condition of oil is suitable for further service. The viscosity index is 249.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WCI2097842**	WCI2091289	WCI288579
Sample Date		Client Info		**06 Aug 2010**	29 Jun 2009	16 Jun 2008
Machine Age	mths	Client Info		**0**	0	0
Oil Age	mths	Client Info		**40**	27	15
Oil Changed		Client Info		**N/A**	N/A	N/A
Sample Status				**ABNORMAL**	ABNORMAL	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m		**<1**	2	0
Chromium	ppm	ASTM D5185m		**0**	0	0
Nickel	ppm	ASTM D5185m		**<1**	<1	0
Titanium	ppm	ASTM D5185m		**3**	6	0
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m		**<1**	<1	0
Lead	ppm	ASTM D5185m		**<1**	0	0
Copper	ppm	ASTM D5185m		**3**	<1	0
Tin	ppm	ASTM D5185m		**0**	0	0
Antimony	ppm	ASTM D5185m		**0**	<1	0
Vanadium	ppm	ASTM D5185m		**0**	0	0
Cadmium	ppm	ASTM D5185m		**0**	0	0

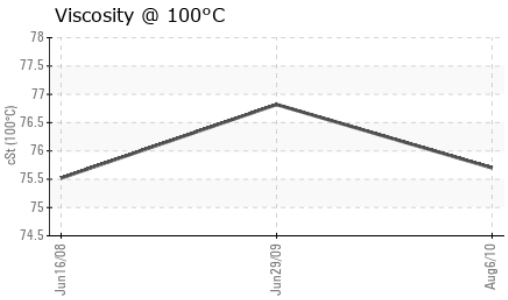
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**<1**	<1	0
Barium	ppm	ASTM D5185m		**2**	7	0
Molybdenum	ppm	ASTM D5185m		**<1**	<1	0
Manganese	ppm	ASTM D5185m		**<1**	0	0
Magnesium	ppm	ASTM D5185m		**0**	1	0
Calcium	ppm	ASTM D5185m		**0**	2	0
Phosphorus	ppm	ASTM D5185m		**319**	544	219
Zinc	ppm	ASTM D5185m		**0**	<1	0
Sulfur	ppm	ASTM D5185m		**3177**	3489	2625

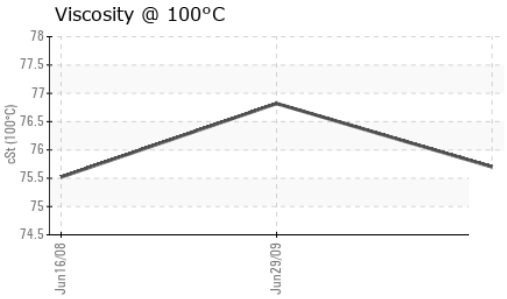
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m		**38**	25	17
Sodium	ppm	ASTM D5185m		**0**	<1	0
Potassium	ppm	ASTM D5185m		**<1**	3	0

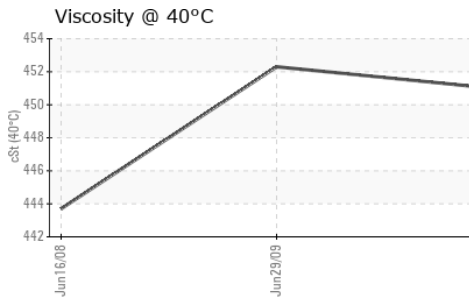
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.699**	0.242	0.676

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**HEAVY**	HEAVY	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	HEAVY	HEAVY
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**HEAVY**	HEAVY	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		**NEG**	NEG	NEG
Free Water	scalar	*Visual		**NEG**	NEG	NEG

OIL ANALYSIS REPORT



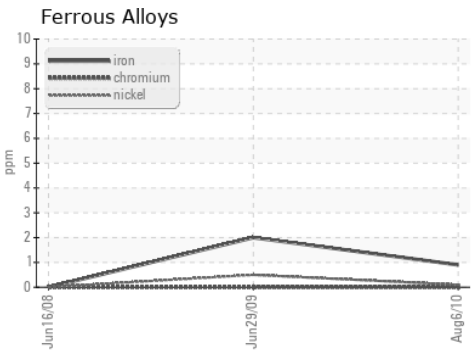


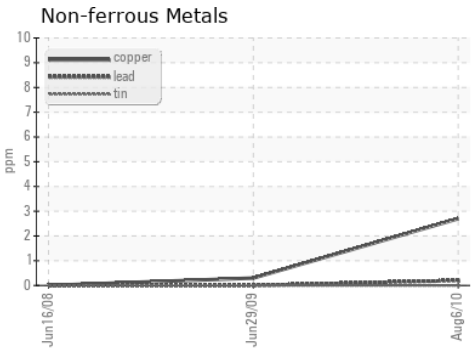


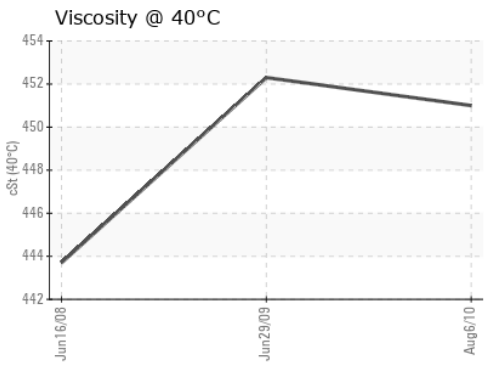
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		**451.0**	452.3	443.7
Visc @ 100°C	cSt	ASTM D445		**75.7**	76.82	75.52
Viscosity Index (VI)	Scale	ASTM D2270		**249**	251	251

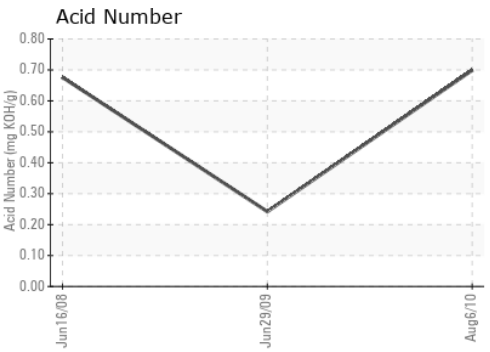
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			*no image*	*no image*	*no image*
Bottom			*no image*	*no image*	*no image*

GRAPHS









Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WCI2097842 **Received** : 19 Aug 2010
Lab Number : 02692084 **Diagnosed** : 22 Aug 2010
Unique Number : 5297092 **Diagnostician** : Jonathan Hester
Test Package : IND 2 (Additional Tests: Bottom, KV100, PrtCount, VI)

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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JP
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