



# PROBLEM SUMMARY

Sample Rating Trend



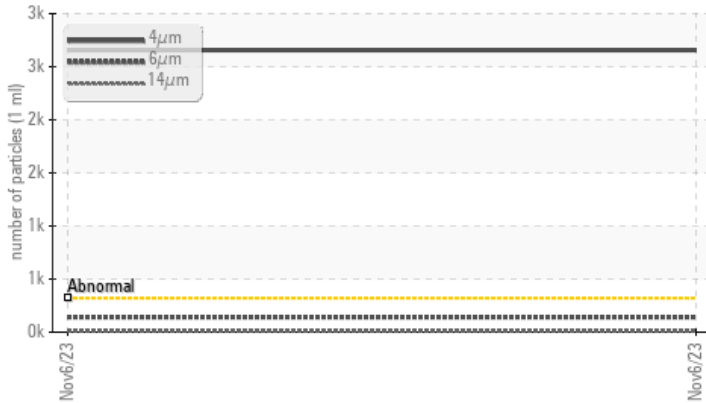
ISO



Machine Id  
**BDFGPB-1 (S/N 14-231)**  
 Component  
**Hydraulic Power Pack**  
 Fluid  
**SHELL TELLUS S2 MX 46 (335 GAL)**

## COMPONENT CONDITION SUMMARY

### ▲ Particle Trend



## RECOMMENDATION

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. Please note that this is a corrected copy. ( Customer Sample Comment: Viscosity Index please )

## PROBLEMATIC TEST RESULTS

Sample Status			<b>ABNORMAL</b>	---	---
Particles >4µm	ASTM D7647	>320	▲ <b>2656</b>	---	---
Particles >6µm	ASTM D7647	>80	▲ <b>141</b>	---	---
Oil Cleanliness	ISO 4406 (c)	>15/13/10	▲ <b>19/14/10</b>	---	---

Customer Id: WESCONSC  
 Sample No.: WC0782769  
 Lab Number: 06008301  
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:  
 Doug Bogart +1 (800)237-1369 x4016  
[dougb@wearcheckusa.com](mailto:dougb@wearcheckusa.com)

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

## RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Filter	MISSED	Nov 22 2023	?	We recommend you service the filters on this component if applicable.

## HISTORICAL DIAGNOSIS



# OIL ANALYSIS REPORT

Sample Rating Trend



ISO

Machine Id  
**BDFGPB-1 (S/N 14-231)**  
 Component  
**Hydraulic Power Pack**  
 Fluid  
**SHELL TELLUS S2 MX 46 (335 GAL)**

## DIAGNOSIS

### Recommendation

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. Please note that this is a corrected copy. ( Customer Sample Comment: Viscosity Index please )

### 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	<b>WC0782769</b>	---	---
Sample Date	Client Info	<b>06 Nov 2023</b>	---	---
Machine Age	hrs	Client Info	<b>32908</b>	---
Oil Age	hrs	Client Info	<b>0</b>	---
Oil Changed	Client Info	<b>Not Chngd</b>	---	---
Sample Status		<b>ABNORMAL</b>	---	---

## CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method	>0.05	<b>NEG</b>	---

## WEAR METALS

method	limit/base	current	history1	history2		
Iron	ppm	ASTM D5185m	>20	<b>0</b>	---	---
Chromium	ppm	ASTM D5185m	>20	<b>0</b>	---	---
Nickel	ppm	ASTM D5185m	>20	<b>0</b>	---	---
Titanium	ppm	ASTM D5185m		<b>0</b>	---	---
Silver	ppm	ASTM D5185m		<b>0</b>	---	---
Aluminum	ppm	ASTM D5185m	>20	<b>0</b>	---	---
Lead	ppm	ASTM D5185m	>20	<b>0</b>	---	---
Copper	ppm	ASTM D5185m	>20	<b>6</b>	---	---
Tin	ppm	ASTM D5185m	>20	<b>0</b>	---	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Cadmium	ppm	ASTM D5185m		<b>0</b>	---	---

## ADDITIVES

method	limit/base	current	history1	history2		
Boron	ppm	ASTM D5185m	0	<b>0</b>	---	---
Barium	ppm	ASTM D5185m	0	<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185m	0	<b>0</b>	---	---
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	---	---
Magnesium	ppm	ASTM D5185m	70	<b>&lt;1</b>	---	---
Calcium	ppm	ASTM D5185m	10	<b>30</b>	---	---
Phosphorus	ppm	ASTM D5185m	300	<b>313</b>	---	---
Zinc	ppm	ASTM D5185m	325	<b>368</b>	---	---
Sulfur	ppm	ASTM D5185m	665	<b>1041</b>	---	---

## CONTAMINANTS

method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185m	>15	<b>&lt;1</b>	---	---
Sodium	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	---	---

## FLUID CLEANLINESS

method	limit/base	current	history1	history2	
Particles >4µm	ASTM D7647	>320	<b>▲ 2656</b>	---	---
Particles >6µm	ASTM D7647	>80	<b>▲ 141</b>	---	---
Particles >14µm	ASTM D7647	>10	<b>9</b>	---	---
Particles >21µm	ASTM D7647	>3	<b>2</b>	---	---
Particles >38µm	ASTM D7647	>3	<b>1</b>	---	---
Particles >71µm	ASTM D7647	>3	<b>0</b>	---	---
Oil Cleanliness	ISO 4406 (c)	>15/13/10	<b>▲ 19/14/10</b>	---	---

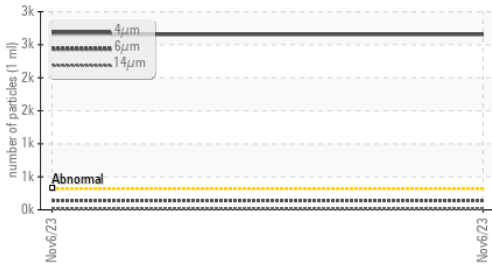
## FLUID DEGRADATION

method	limit/base	current	history1	history2		
Acid Number (AN)	mg KOH/g	ASTM D8045	0.35	<b>0.33</b>	---	---



# OIL ANALYSIS REPORT

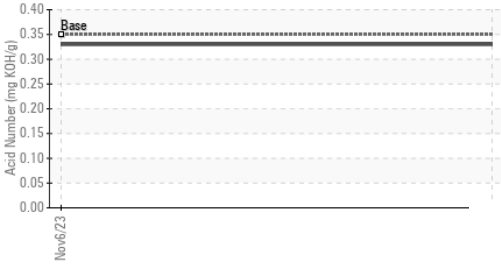
### ▲ Particle Trend



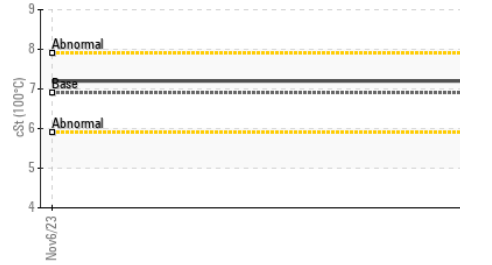
### Viscosity @ 100°C



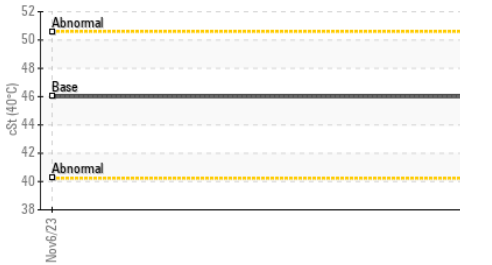
### Acid Number



### Viscosity @ 100°C



### Viscosity @ 40°C



VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---
Precipitate	scalar	*Visual	NONE	<b>NONE</b>	---	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	---	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	---	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	---	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	---	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	---	---
Emulsified Water	scalar	*Visual	>0.05	<b>NEG</b>	---	---
Free Water	scalar	*Visual		<b>NEG</b>	---	---

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	46.0	<b>46.0</b>	---	---
Visc @ 100°C	cSt	ASTM D445	6.9	<b>7.2</b>	---	---
Viscosity Index (VI)	Scale	ASTM D2270	105	<b>116</b>	---	---

### SAMPLE IMAGES

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

### GRAPHS

#### Ferrous Alloys



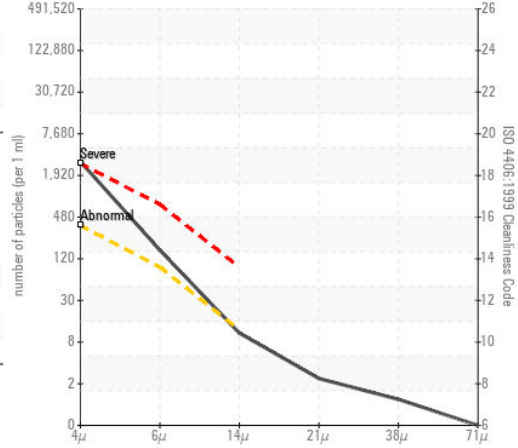
#### Non-ferrous Metals



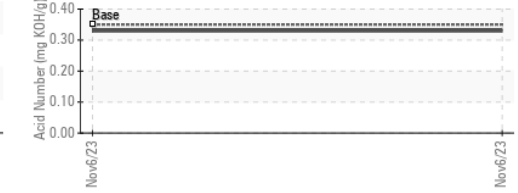
#### Viscosity @ 40°C



#### ▲ Particle Count



#### Acid Number



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0782769 **Received** : 15 Nov 2023  
**Lab Number** : 06008301 **Diagnosed** : 22 Nov 2023  
**Unique Number** : 10742063 **Diagnostician** : Doug Bogart  
**Test Package** : IND 2 ( Additional Tests: KV100, 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)

**WEST SIDE SOLUTIONS**  
 4506 HWY 90  
 CONWAY, SC  
 US 29526-9631  
 Contact: KEN ANDRE  
 westsidesolutionsus@gmail.com  
 T: (216)577-5014  
 F: