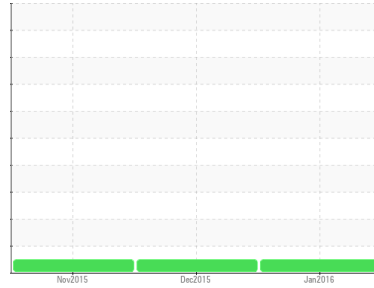




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**Press #2 6561082**  
 Component  
**Hydraulic System**  
 Fluid  
**SHELL TELLUS S2 M 46 (251 GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

### 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>PTKM2266638</b>	PTKM2264837	PTKM2264835
Sample Date	Client Info			<b>12 Jan 2016</b>	18 Dec 2015	20 Nov 2015
Machine Age	hrs	Client Info		<b>3425270</b>	3243260	324
Oil Age	hrs	Client Info		<b>0</b>	0	324
Oil Changed	Client Info			<b>N/A</b>	Not Changd	Not Changd
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	<b>2</b>	1	2
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Nickel	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	<1
Lead	ppm	ASTM D5185m	>10	<b>0</b>	0	<1
Copper	ppm	ASTM D5185m	>75	<b>&lt;1</b>	<1	<1
Tin	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Antimony	ppm	ASTM D5185m		<b>0</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0

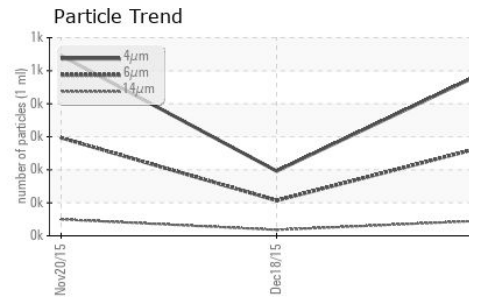
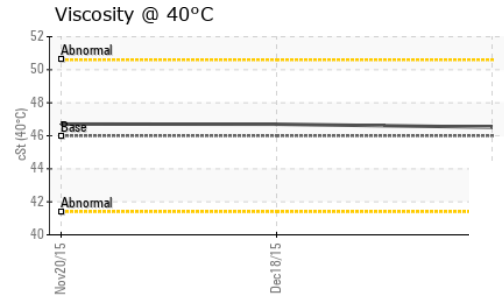
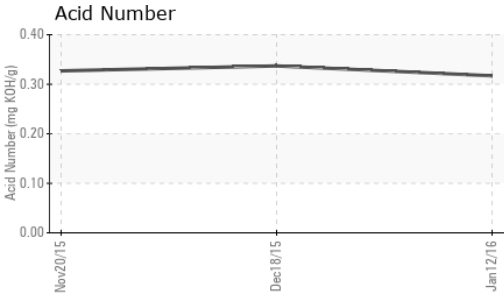
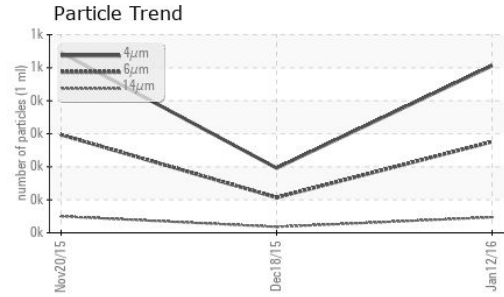
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Barium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Manganese	ppm	ASTM D5185m		<b>0</b>	0	0
Magnesium	ppm	ASTM D5185m		<b>8</b>	6	8
Calcium	ppm	ASTM D5185m		<b>244</b>	216	232
Phosphorus	ppm	ASTM D5185m		<b>200</b>	204	195
Zinc	ppm	ASTM D5185m		<b>213</b>	196	209
Sulfur	ppm	ASTM D5185m		<b>3221</b>	3322	3044

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	<b>5</b>	3	4
Sodium	ppm	ASTM D5185m		<b>42</b>	42	54
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	0	0

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		<b>506</b>	196	546
Particles >6µm		ASTM D7647	>2500	<b>276</b>	107	297
Particles >14µm		ASTM D7647	>320	<b>47</b>	18	50
Particles >21µm		ASTM D7647	>80	<b>15</b>	6	17
Particles >38µm		ASTM D7647	>20	<b>2</b>	0	2
Particles >71µm		ASTM D7647	>4	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>18/15	<b>16/15/13</b>	15/14/11	16/15/13

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.317</b>	0.337	0.327

# OIL ANALYSIS REPORT

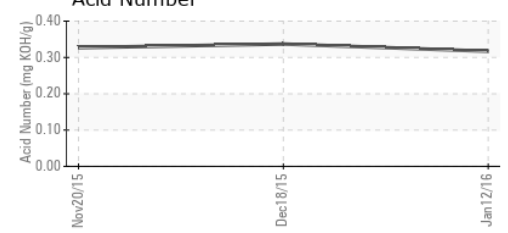
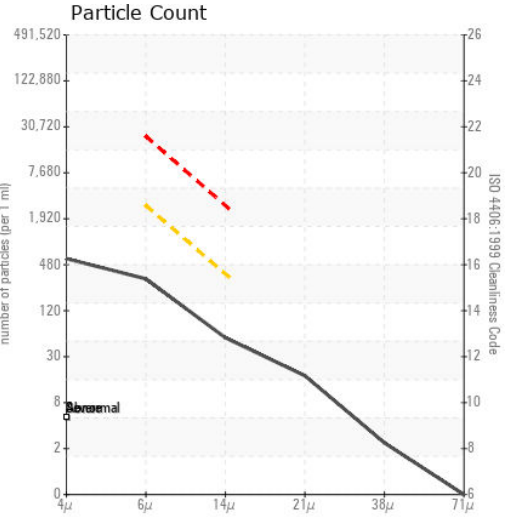
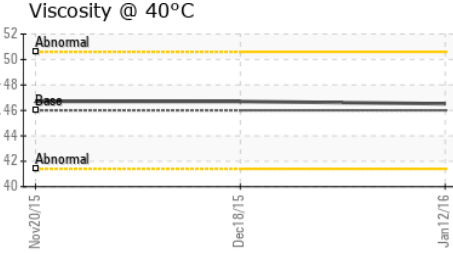
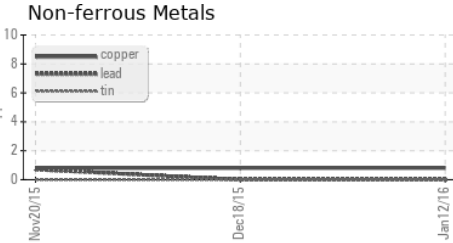
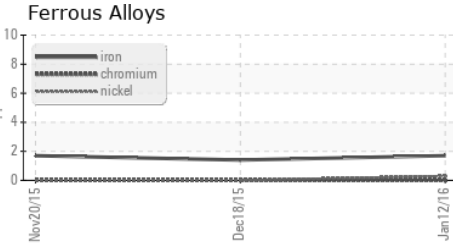


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	46.0	<b>46.52</b>	46.7	46.71

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

### GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PTKM2266638 **Received** : 27 Jan 2016  
**Lab Number** : **03908630** **Diagnosed** : 28 Jan 2016  
**Unique Number** : 7278967 **Diagnostician** : Wes Davis  
**Test Package** : MOB 2

**NIAGARA BOTTLING**  
 11031 88TH AVE  
 PLEASANT PRAIRIE, WI  
 US 53158  
 Contact: TODD MONTGOMERY

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)

T: (909)239-7599  
F: