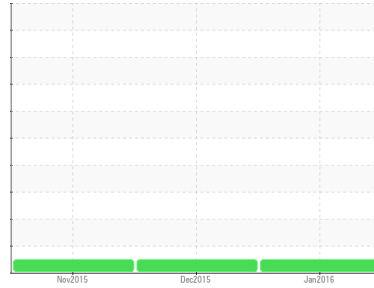




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
Press #3 6561231
 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		PTKM2266640	PTKM2264838	PTKM2264831
Sample Date	Client Info		12 Jan 2016	28 Dec 2015	20 Nov 2015
Machine Age	hrs	Client Info	2625315	2977541	324
Oil Age	hrs	Client Info	0	0	324
Oil Changed	Client Info		N/A	N/A	Not Changd
Sample Status			NORMAL	NORMAL	NORMAL

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >20	2	2	2
Chromium	ppm	ASTM D5185m >10	0	0	0
Nickel	ppm	ASTM D5185m	0	0	<1
Titanium	ppm	ASTM D5185m	0	0	0
Silver	ppm	ASTM D5185m	0	0	0
Aluminum	ppm	ASTM D5185m >10	0	0	<1
Lead	ppm	ASTM D5185m >10	0	<1	<1
Copper	ppm	ASTM D5185m >75	2	2	2
Tin	ppm	ASTM D5185m >10	0	0	0
Antimony	ppm	ASTM D5185m	0	0	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	0	0
Barium	ppm	ASTM D5185m	<1	0	<1
Molybdenum	ppm	ASTM D5185m	0	<1	<1
Manganese	ppm	ASTM D5185m	0	0	0
Magnesium	ppm	ASTM D5185m	8	6	8
Calcium	ppm	ASTM D5185m	97	84	98
Phosphorus	ppm	ASTM D5185m	217	213	201
Zinc	ppm	ASTM D5185m	226	208	223
Sulfur	ppm	ASTM D5185m	3247	3310	3034

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	4	3	4
Sodium	ppm	ASTM D5185m	8	8	15
Potassium	ppm	ASTM D5185m >20	0	0	0

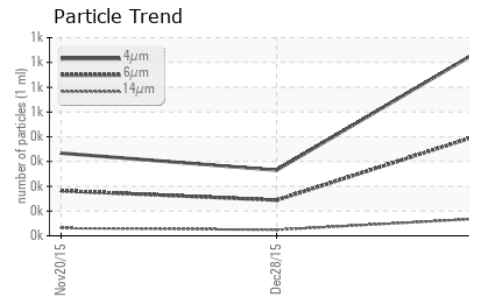
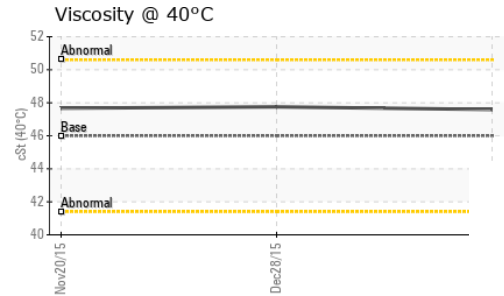
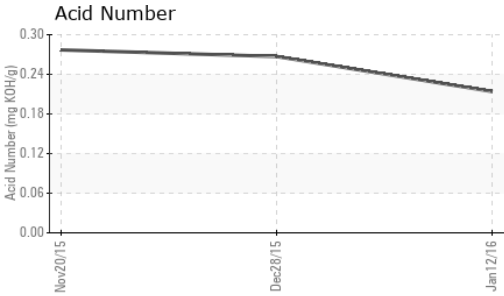
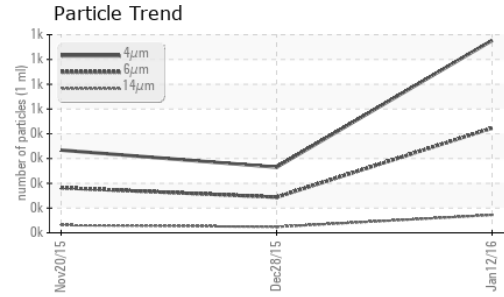
FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		777	265	334
Particles >6µm	ASTM D7647	>2500	423	144	182
Particles >14µm	ASTM D7647	>320	72	24	31
Particles >21µm	ASTM D7647	>80	24	8	10
Particles >38µm	ASTM D7647	>20	3	1	1
Particles >71µm	ASTM D7647	>4	0	0	0
Oil Cleanliness	ISO 4406 (c)	>18/15	17/16/13	15/14/12	16/15/12

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.214	0.267	0.277

OIL ANALYSIS REPORT

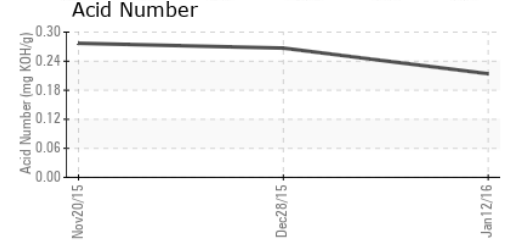
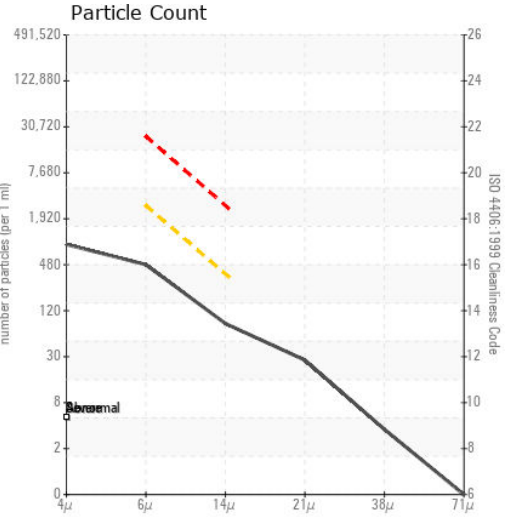
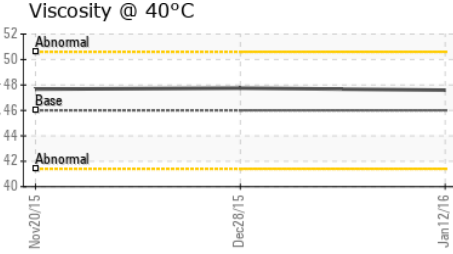
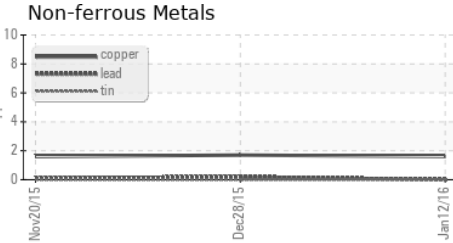
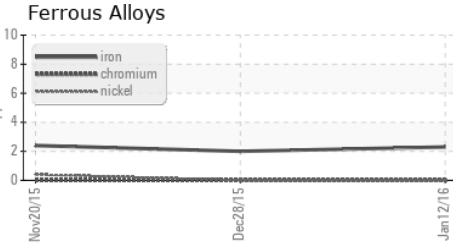


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	VLITE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	47.59	47.75

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

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PTKM2266640 **Received** : 27 Jan 2016
Lab Number : 03908631 **Diagnosed** : 28 Jan 2016
Unique Number : 7278968 **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: