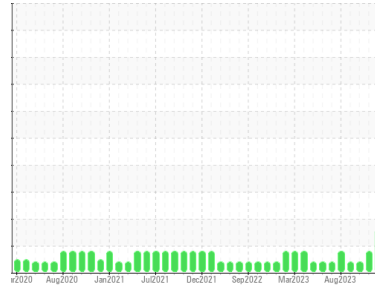




Machine Id  
**Press #2 6561082**

Component  
**Hydraulic System**

Fluid  
**KLUBER KLUBEROIL 4 UH1-46 N (251 GAL)**



**DIAGNOSIS**

**Recommendation**

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. We were unable to perform a particle count due to a high concentration of particles present in this sample.

**Wear**

All component wear rates are normal.

**Contamination**

MPC (Membrane Patch Colorimetry) test indicates a high concentration of varnish present. There is a high amount of visible silt present in the sample.

**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>PTK0005127</b>	PTK0004919	PTK0004808
Sample Date	Client Info		<b>03 Nov 2023</b>	17 Oct 2023	19 Sep 2023
Machine Age	hrs	Client Info	<b>60845</b>	60539	60216
Oil Age	hrs	Client Info	<b>15058</b>	14752	14429
Oil Changed	Client Info		<b>Not Changed</b>	Not Changed	Not Changed
Sample Status			<b>SEVERE</b>	SEVERE	ABNORMAL

**CONTAMINATION**

	method	limit/base	current	history1	history2
Water	WC Method	>0.1	<b>NEG</b>	NEG	NEG

**WEAR METALS**

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >20	<b>4</b>	2	4
Chromium	ppm	ASTM D5185m >10	<b>0</b>	<1	<1
Nickel	ppm	ASTM D5185m >10	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m	<b>0</b>	<1	0
Silver	ppm	ASTM D5185m	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >10	<b>&lt;1</b>	2	0
Lead	ppm	ASTM D5185m >10	<b>0</b>	<1	0
Copper	ppm	ASTM D5185m >75	<b>&lt;1</b>	<1	<1
Tin	ppm	ASTM D5185m >10	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	<1	0

**ADDITIVES**

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>0</b>	0	0
Barium	ppm	ASTM D5185m	<b>7</b>	9	0
Molybdenum	ppm	ASTM D5185m	<b>0</b>	<1	0
Manganese	ppm	ASTM D5185m	<b>0</b>	0	0
Magnesium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	0
Calcium	ppm	ASTM D5185m	<b>3</b>	3	2
Phosphorus	ppm	ASTM D5185m	<b>85</b>	91	74
Zinc	ppm	ASTM D5185m	<b>21</b>	29	25
Sulfur	ppm	ASTM D5185m	<b>0</b>	0	6

**CONTAMINANTS**

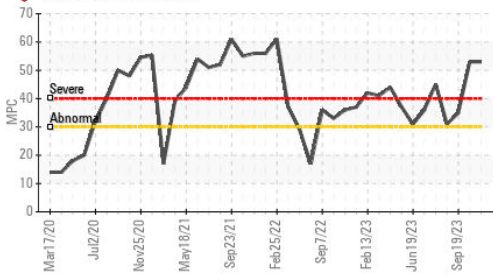
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	<b>&lt;1</b>	<1	<1
Sodium	ppm	ASTM D5185m	<b>0</b>	0	0
Potassium	ppm	ASTM D5185m >20	<b>1</b>	1	<1

**FLUID CLEANLINESS**

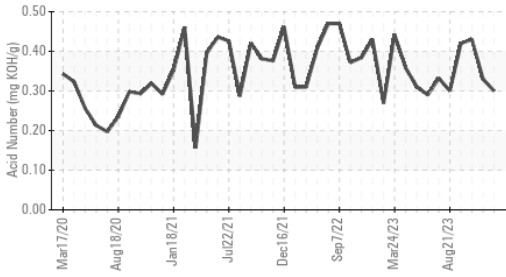
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	<b>---</b>	254	176
Particles >6µm	ASTM D7647	>1300	<b>---</b>	68	47
Particles >14µm	ASTM D7647	>160	<b>---</b>	9	7
Particles >21µm	ASTM D7647	>40	<b>---</b>	3	2
Particles >38µm	ASTM D7647	>10	<b>---</b>	0	0
Particles >71µm	ASTM D7647	>3	<b>---</b>	0	0
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<b>---</b>	15/13/10	15/13/10

# OIL ANALYSIS REPORT

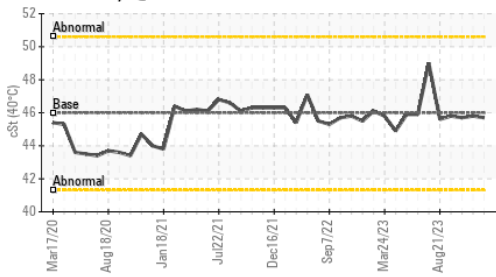
### Varnish Potential



### Acid Number



### Viscosity @ 40°C

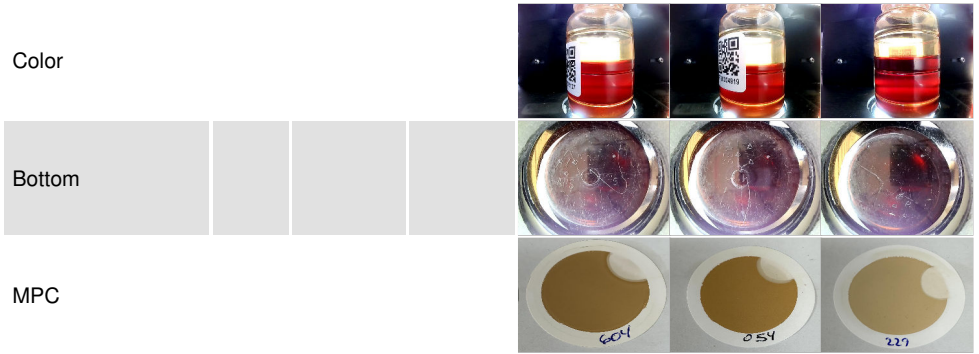


FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.3</b>	0.33	0.43
MPC Varnish Potential	Scale	ASTM D7843	>15	<b>53</b>	53	35

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

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	<b>45.7</b>	45.8	45.7

### SAMPLE IMAGES



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PTK0005127 **Received** : 16 Nov 2023  
**Lab Number** : **06009604** **Diagnosed** : 29 Nov 2023  
**Unique Number** : 10743366 **Diagnostician** : Doug Bogart  
**Test Package** : MOB 2 ( Additional Tests: MPC )

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

To discuss this sample report, contact Customer Service at 1-800-237-1369.

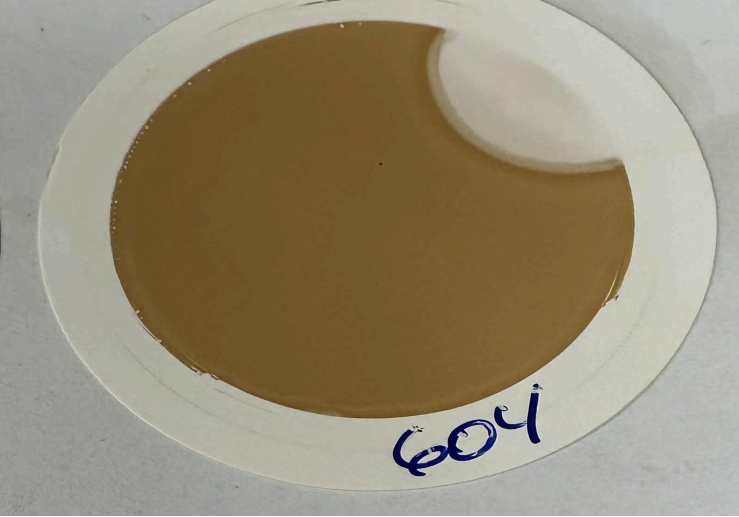
\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

T: (909)239-7599

F:

MPC (Varnish Test)



Sample Color & Clarity



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