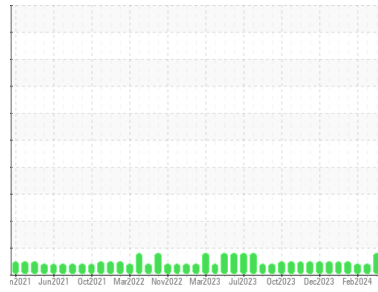




# OIL ANALYSIS REPORT

Sample Rating Trend



INSOLUBLES



Machine Id

## Press #6 Press #6

Component

### Hydraulic System

Fluid

### KLUBER KLUBEROIL 4 UH1-46 N (220 GAL)

#### DIAGNOSIS

##### ▲ Recommendation

The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Please note that this is a corrected copy for laboratory data and diagnostic comment updates for MPC.

##### Wear

All component wear rates are normal.

##### ▲ Contamination

MPC (Membrane Patch Colorimetry) test indicates a high concentration of varnish present. The amount and size of particulates present in the system are acceptable.

##### Fluid Condition

The AN level is acceptable for this fluid.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>PTK0005371</b>	PTK0005243	PTK0005249
Sample Date	Client Info			<b>02 May 2024</b>	29 Mar 2024	27 Feb 2024
Machine Age	hrs	Client Info		<b>23325</b>	22585	22003
Oil Age	hrs	Client Info		<b>5059</b>	4319	3737
Oil Changed	Client Info			<b>Not Chngd</b>	Not Chngd	Not Chngd
Sample Status				<b>SEVERE</b>	MARGINAL	MARGINAL

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

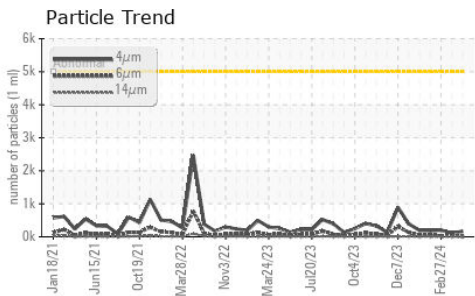
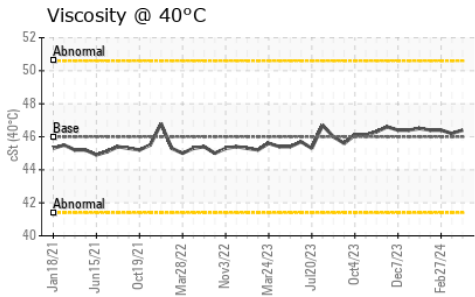
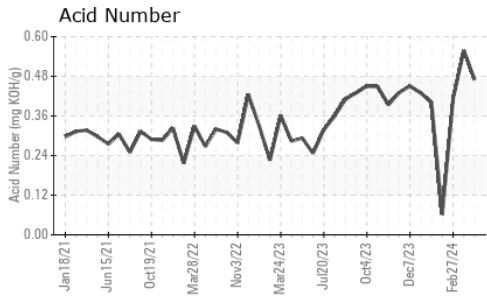
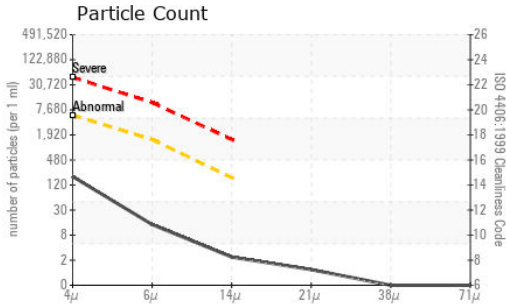
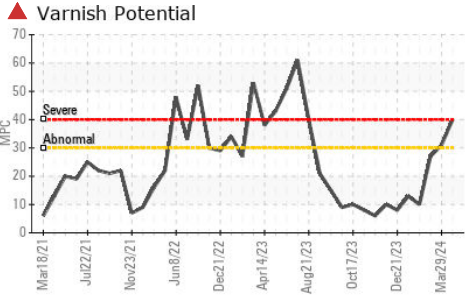
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	<b>13</b>	15	11
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	<1	0
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	0
Silver	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m	>10	<b>&lt;1</b>	2	0
Lead	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>75	<b>2</b>	1	<1
Tin	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<b>0</b>	0	0
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>0</b>	0	0
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>0</b>	<1	0
Calcium	ppm	ASTM D5185m		<b>7</b>	11	6
Phosphorus	ppm	ASTM D5185m		<b>110</b>	137	124
Zinc	ppm	ASTM D5185m		<b>11</b>	13	3
Sulfur	ppm	ASTM D5185m		<b>12</b>	0	0

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	<b>2</b>	3	2
Sodium	ppm	ASTM D5185m		<b>2</b>	0	1
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	1	0

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<b>169</b>	108	203
Particles >6µm		ASTM D7647	>1300	<b>12</b>	45	30
Particles >14µm		ASTM D7647	>160	<b>2</b>	7	2
Particles >21µm		ASTM D7647	>40	<b>1</b>	3	1
Particles >38µm		ASTM D7647	>10	<b>0</b>	0	0
Particles >71µm		ASTM D7647	>3	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>15/11/9</b>	14/13/10	15/12/9

# OIL ANALYSIS REPORT

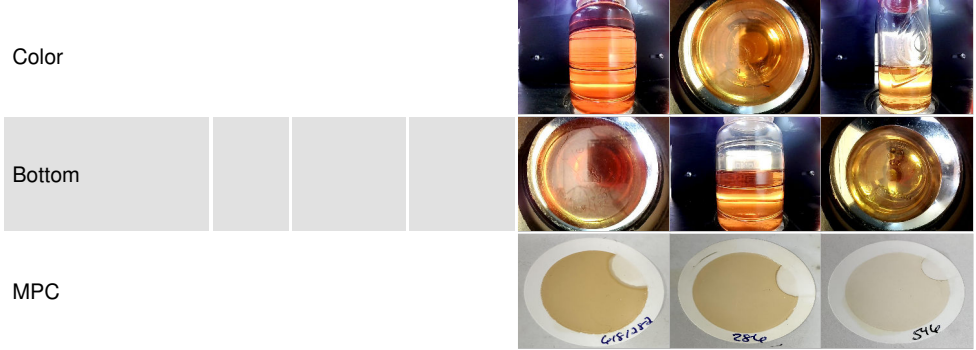


FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.47</b>	0.558	0.413
MPC Varnish Potential	Scale	ASTM D7843	>15	<b>▲ 40</b>	▲ 31	▲ 27

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>NONE</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>46.4</b>	46.2	46.4

SAMPLE IMAGES		method	limit/base	current	history1	history2
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**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PTK0005371 **Received** : 16 May 2024  
**Lab Number** : **06181282** **Tested** : 29 May 2024  
**Unique Number** : 11032608 **Diagnosed** : 29 May 2024 - Doug Bogart  
**Test Package** : MOB 2 ( Additional Tests: MPC )

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

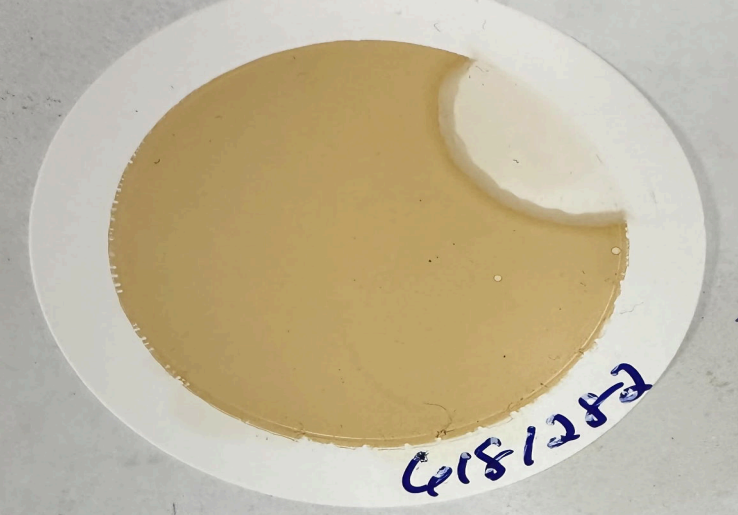
To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - 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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