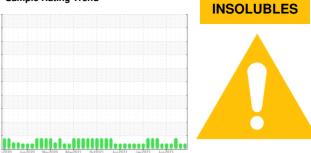


# **OIL ANALYSIS REPORT**

**Sample Rating Trend** 



Machine Id

# Press #2 6561082

Component

**Hydraulic System** 

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. Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

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

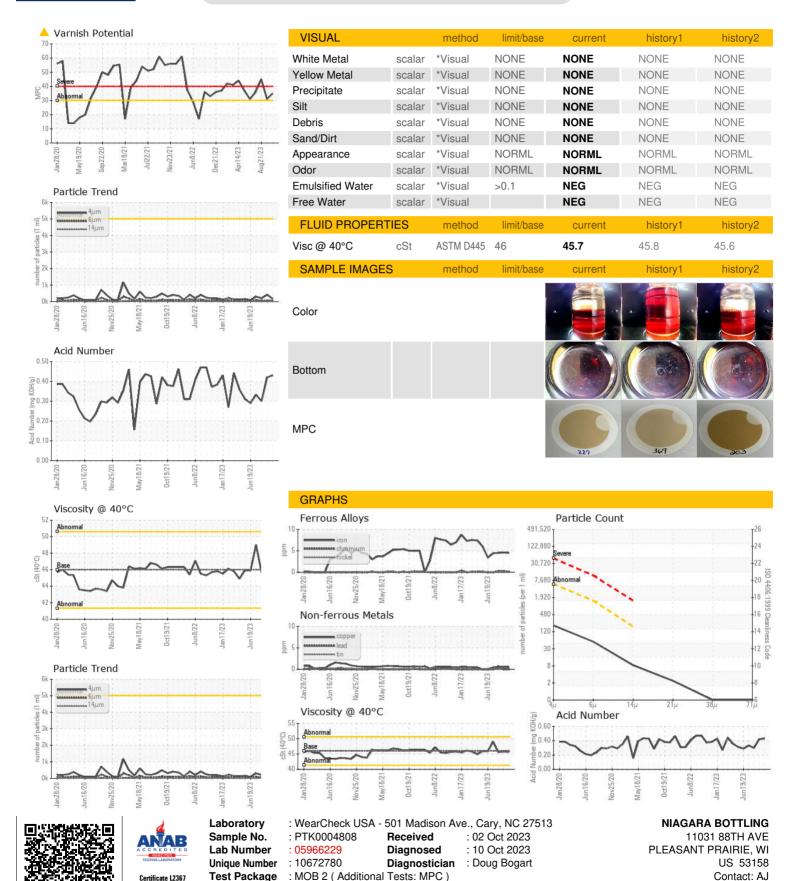
#### **Fluid Condition**

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

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SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PTK0004808	PTK0004792	PTK0004802
Sample Date		Client Info		19 Sep 2023	06 Sep 2023	21 Aug 2023
Machine Age	hrs	Client Info		60216	59988	59614
Oil Age	hrs	Client Info		14429	14201	13827
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ABNORMAL	ABNORMAL	SEVERE
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	4	5	4
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	0	<1	<1
Lead	ppm	ASTM D5185m	>10	0	0	<1
Copper	ppm	ASTM D5185m	>75	<1	<1	<1
Tin	ppm	ASTM D5185m	>10	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	<1
Cadmium	ppm	ASTM D5185m		0	<1	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		0	<1	6
Calcium	ppm	ASTM D5185m		2	<1	0
Phosphorus	ppm	ASTM D5185m		74	79	76
Zinc	ppm	ASTM D5185m		25	24	36
Sulfur	ppm	ASTM D5185m		6	53	37
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	<1	<1	<1
Sodium	ppm	ASTM D5185m		0	1	1
Potassium	ppm	ASTM D5185m	>20	<1	3	2
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	176	409	202
Particles >6µm		ASTM D7647	>1300	47	53	63
Particles >14µm		ASTM D7647	>160	7	5	8
Particles >21µm		ASTM D7647	>40	2	1	3
Particles >38µm		ASTM D7647	>10	0	0	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	15/13/10	16/13/10	15/13/10
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.43	0.42	0.3
MPC Varnish Potential	Scale	ASTM D7843	>15	△ 35	<u>△</u> 31	<b>4</b> 5
	2 30.10					



### **OIL ANALYSIS REPORT**



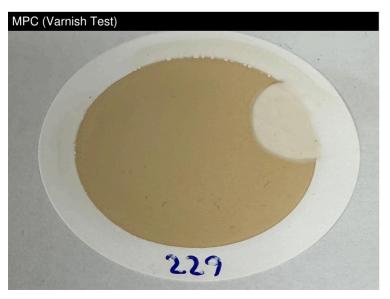
To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - 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)

F:

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Report Id: NIAPLE [WUSCAR] 05966229 (Generated: 10/17/2023 18:34:14) Rev: 1

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