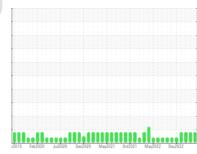


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id

Press #3 6561231

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. We recommend an early resample to monitor this condition.

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.

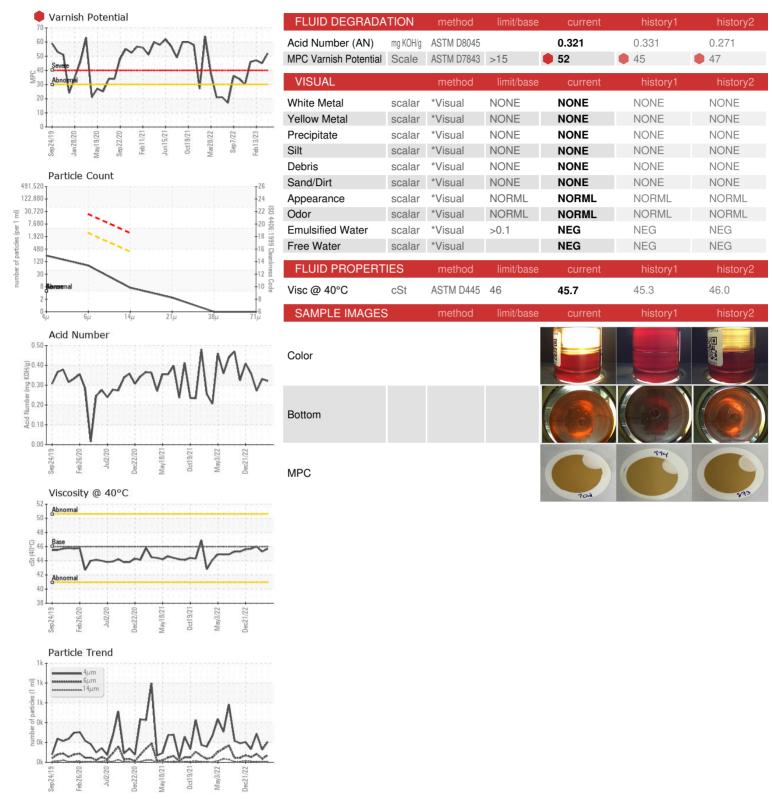
Fluid Condition

The AN level is acceptable for this fluid.

L)	72019 Feb20220 Jul2020 Dec2020 May/2021 Oct2021 May/2022 Dec2022					
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PTK0004287	PTK0003845	PTK0004301
Sample Date		Client Info		14 Apr 2023	24 Mar 2023	13 Feb 2023
Machine Age	hrs	Client Info		56602	56110	55222
Oil Age	hrs	Client Info		11330	10838	9950
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				SEVERE	SEVERE	SEVERE
CONTAMINATION	V	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	14	13	12
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	0	0	2
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>75	<1	<1	<1
Tin	ppm	ASTM D5185m	>10	0	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
ADDITIVES Boron	ppm	method ASTM D5185m	limit/base	current 0	history1	history2 0
	ppm		limit/base		· ·	•
Boron	• • • • • • • • • • • • • • • • • • • •	ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	0	0	0
Boron Barium	ppm	ASTM D5185m ASTM D5185m	limit/base	0	0	0
Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	0 0 0 <1 <1	0 0 0 <1 <1	0 0 0 <1 0
Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	0 0 0 <1 <1 2	0 0 0 <1 <1	0 0 0 <1 0 <1
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	0 0 0 <1 <1 2 92	0 0 0 <1 <1 1 103	0 0 0 <1 0 <1 99
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	0 0 0 <1 <1 2 92	0 0 0 <1 <1 1 103 25	0 0 0 <1 0 <1 99
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0 0 0 <1 <1 2 92	0 0 0 <1 <1 1 103	0 0 0 <1 0 <1 99 22 39
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	limit/base	0 0 0 <1 <1 2 92	0 0 0 <1 <1 1 103 25 14 history1	0 0 0 <1 0 <1 99 22 39
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m		0 0 0 <1 <1 2 92 28 36 current	0 0 0 <1 <1 1 103 25 14 history1	0 0 0 <1 0 <1 99 22 39 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	limit/base >20	0 0 0 <1 <1 2 92 28 36 current	0 0 0 <1 <1 1 103 25 14 history1	0 0 0 <1 0 <1 99 22 39 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	limit/base >20 >20	0 0 0 <1 <1 2 92 28 36 current	0 0 0 <1 <1 1 103 25 14 history1	0 0 0 <1 0 <1 99 22 39 history2 1 2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	limit/base >20	0 0 0 <1 <1 2 92 28 36 current 1 0 2	0 0 0 <1 <1 1 103 25 14 history1 2 <1 <1	0 0 0 0 <1 0 <1 99 22 39 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m method ASTM D5185m	limit/base >20 >20 limit/base	0 0 0 <1 <1 2 92 28 36 current 1 0 2 current	0 0 0 <1 <1 1 1 103 25 14 history1 2 <1 <1 127	0 0 0 <1 0 <1 99 22 39 history2 1 2 0
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m method ASTM D5185m	limit/base >20 >20 limit/base >2500	0 0 0 <1 <1 2 92 28 36 current 1 0 2 current 207 69	0 0 0 <1 <1 1 103 25 14 history1 2 <1 <1 127 36	0 0 0 0 <1 0 <1 99 22 39 history2 1 2 0 history2 288 84
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m Method ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647	limit/base >20 >20 limit/base >2500 >320	0 0 0 <1 <1 2 92 28 36 current 1 0 2 current 207 69 6	0 0 0 <1 <1 1 103 25 14 history1 2 <1 <1 <1 127 36 4	0 0 0 0 <1 0 <1 99 22 39 history2 1 2 0 history2 288 84
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >14µm Particles >21µm	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m Method ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647	limit/base >20 >20 limit/base >2500 >320 >80	0 0 0 <1 <1 2 92 28 36 current 1 0 2 current 207 69 6	0 0 0 <1 <1 1 103 25 14 history1 2 <1 <1 <1 history1 127 36 4	0 0 0 0 <1 0 <1 99 22 39 history2 1 2 0 history2 288 84 8
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >54µm Particles >21µm Particles >38µm	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m Method ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	limit/base >20 >20 limit/base >2500 >320 >80 >20	0 0 0 0 <1 <1 2 92 28 36 current 1 0 2 current 207 69 6 2 0	0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 0 0 0 <1 0 <1 99 22 39 history2 1 2 0 history2 288 84 8
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >14µm Particles >21µm	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m Method ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647	limit/base >20 >20 limit/base >2500 >320 >80 >20	0 0 0 <1 <1 2 92 28 36 current 1 0 2 current 207 69 6	0 0 0 <1 <1 1 103 25 14 history1 2 <1 <1 <1 history1 127 36 4	0 0 0 0 <1 0 <1 99 22 39 history2 1 2 0 history2 288 84 8



OIL ANALYSIS REPORT





Certificate L2367

Laboratory Sample No. Lab Number

Unique Number : 10442395

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 25 Apr 2023 : PTK0004287 : 05828902 Diagnosed : 02 May 2023 Diagnostician : Doug Bogart

Test Package : MOB 2 (Additional Tests: MPC) 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) **NIAGARA BOTTLING** 11031 88TH AVE

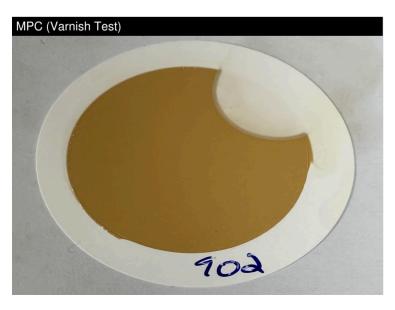
PLEASANT PRAIRIE, WI US 53158

Contact: AJ

T: (909)239-7599

F:

Contact/Location: AJ? - NIAPLE





Report Id: NIAPLE [WUSCAR] 05828902 (Generated: 01/08/2024 16:04:25) Rev: 1

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