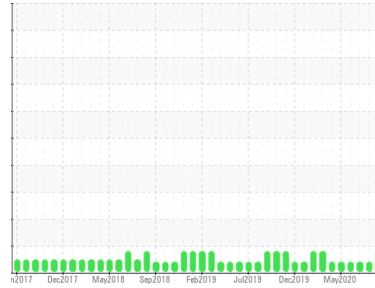




Machine Id
Press #3 6561231

Component
Hydraulic System

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



DIAGNOSIS

Recommendation

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.

SAMPLE INFORMATION method limit/base current history1 history2

Sample Number	Client Info	PTK0001084	PTK0001081	PTK0000822
Sample Date	Client Info	22 Sep 2020	18 Aug 2020	02 Jul 2020
Machine Age	hrs	39172	38420	37319
Oil Age	hrs	0	3527	2426
Oil Changed	Client Info	Not Chngd	Not Chngd	Not Chngd
Sample Status		SEVERE	ABNORMAL	ABNORMAL

CONTAMINATION method limit/base current history1 history2

Water	WC Method	>0.1	NEG	NEG	NEG
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WEAR METALS method limit/base current history1 history2

Iron	ppm	ASTM D5185m	>20	1	<1	<1
Chromium	ppm	ASTM D5185m	>10	<1	0	<1
Nickel	ppm	ASTM D5185m		<1	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	<1	<1
Aluminum	ppm	ASTM D5185m	>10	0	0	0
Lead	ppm	ASTM D5185m	>10	0	0	<1
Copper	ppm	ASTM D5185m	>75	<1	<1	<1
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	<1

ADDITIVES method limit/base current history1 history2

Boron	ppm	ASTM D5185m		1	0	<1
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	0	0
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m		2	0	<1
Calcium	ppm	ASTM D5185m		8	<1	2
Phosphorus	ppm	ASTM D5185m		159	150	147
Zinc	ppm	ASTM D5185m		84	75	70
Sulfur	ppm	ASTM D5185m		158	130	136

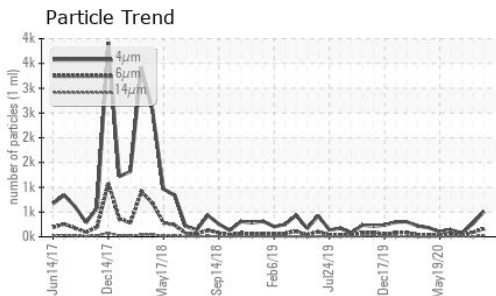
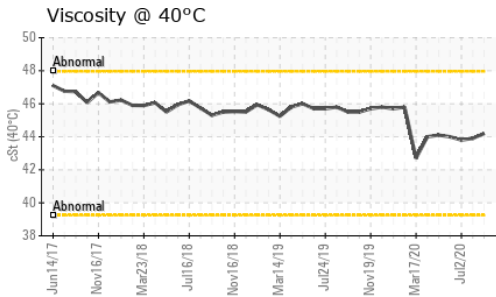
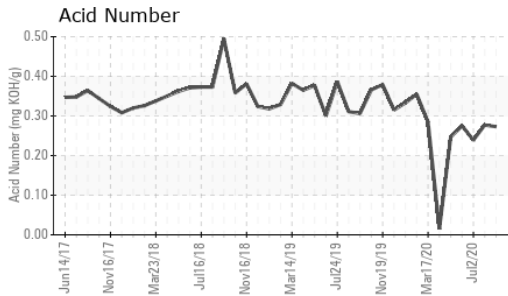
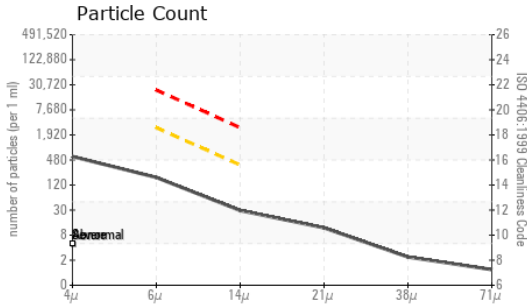
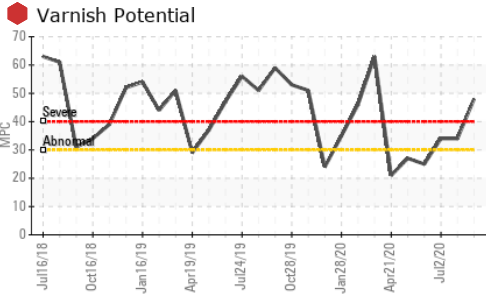
CONTAMINANTS method limit/base current history1 history2

Silicon	ppm	ASTM D5185m	>20	<1	1	2
Sodium	ppm	ASTM D5185m		<1	0	0
Potassium	ppm	ASTM D5185m	>20	<1	0	<1

FLUID CLEANLINESS method limit/base current history1 history2

Particles >4µm	ASTM D7647		511	269	73
Particles >6µm	ASTM D7647	>2500	161	93	29
Particles >14µm	ASTM D7647	>320	26	5	13
Particles >21µm	ASTM D7647	>80	10	0	4
Particles >38µm	ASTM D7647	>20	2	0	1
Particles >71µm	ASTM D7647	>4	1	0	0
Oil Cleanliness	ISO 4406 (c)	>18/15	16/15/12	15/14/10	13/12/11

OIL ANALYSIS REPORT



FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.273	0.277	0.239
MPC Varnish Potential	Scale	ASTM D7843	>15	48	34	34

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

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		44.2	43.9	43.8

SAMPLE IMAGES		method	limit/base	current	history1	history2
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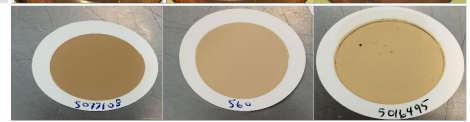
Color



Bottom



MPC



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PTK0001084 **Received** : 29 Sep 2020
Lab Number : **05077108** **Diagnosed** : 06 Oct 2020
Unique Number : 9192339 **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.

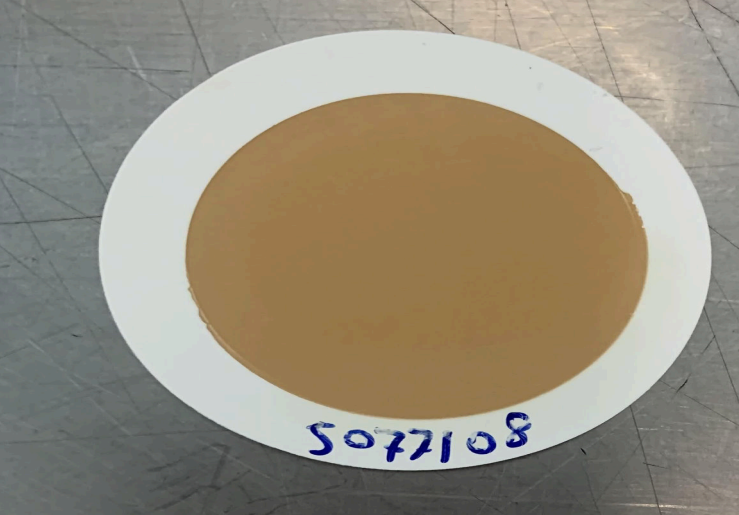
* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

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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