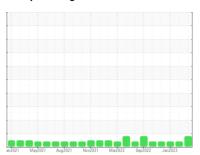


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id

Press #6 Press #6

Component

Hydraulic System

KLUBER KLUBEROIL 4 UH1-46 N (220 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.

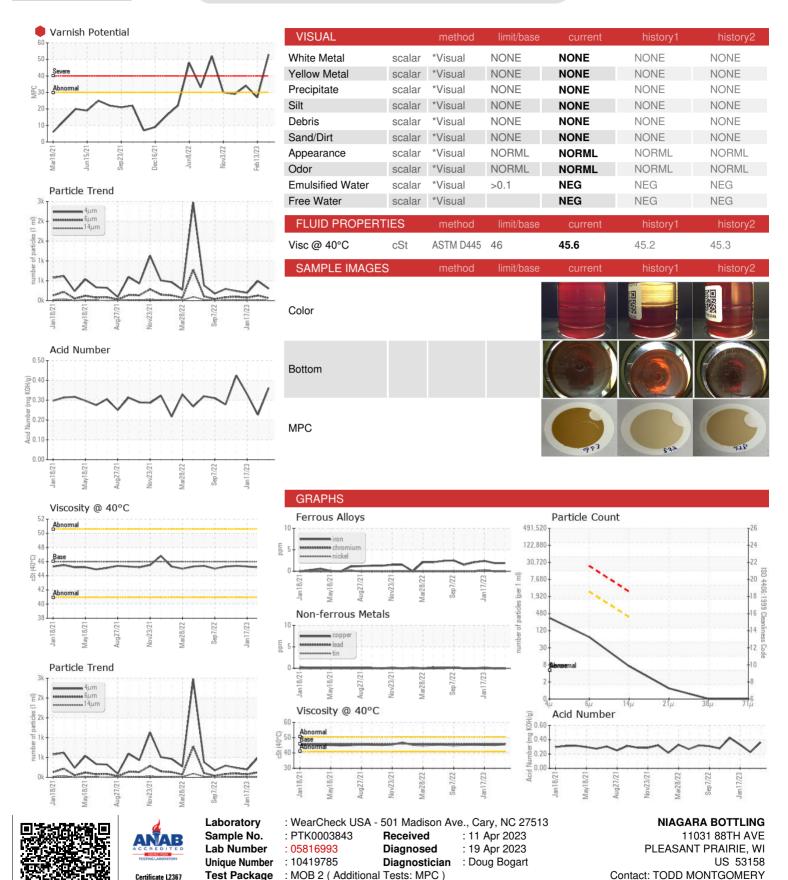
Fluid Condition

The AN level is acceptable for this fluid.

m2021 May2021 Aug2021 Nov2021 Mar2022 Sau2023						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PTK0003843	PTK0004298	PTK0003849
Sample Date		Client Info		24 Mar 2023	13 Feb 2023	17 Jan 2023
Machine Age	hrs	Client Info		15013	14123	13595
Oil Age	hrs	Client Info		7143	6253	5725
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				SEVERE	MARGINAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	2	2	2
Chromium	ppm	ASTM D5185m	>10	0	0	<1
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>10	0	0	<1
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>75	0	0	<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
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	1
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m		0	0	<1
Calcium	ppm	ASTM D5185m		0	0	1
Phosphorus	ppm	ASTM D5185m		55	47	52
Zinc	ppm	ASTM D5185m		23	27	31
Sulfur	ppm	ASTM D5185m		61	94	82
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	6	5	5
Sodium	ppm	ASTM D5185m		0	1	0
Potassium	ppm	ASTM D5185m	>20	<1	0	<1
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		298	493	196
Particles >6μm		ASTM D7647	>2500	63	125	73
Particles >14μm		ASTM D7647	>320	6	12	8
Particles >21µm		ASTM D7647	>80	1	4	2
Particles >38μm		ASTM D7647	>20	0	0	0
Particles >71μm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>18/15	13/10	14/11	13/10
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.362	0.226	0.33
MPC Varnish Potential	Scale	ASTM D7843	>15	5 3	<u>^</u> 27	△ 34



OIL ANALYSIS REPORT



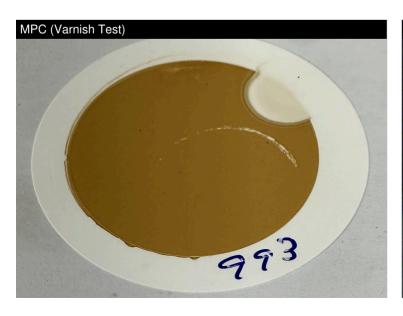
To discuss this sample report, contact Customer Service at 1-800-237-1369.

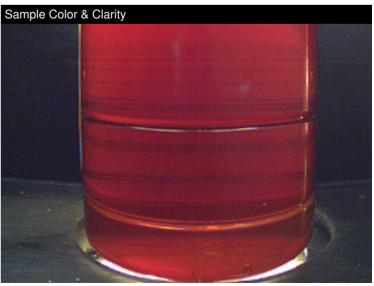
* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

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

F:

T: (909)239-7599





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