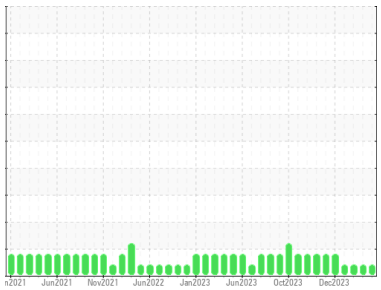
OIL ANALYSIS REPORT

Sample Rating Trend



INSOLUBLES

Machine Id
Press #3 6561231
Component
Hydraulic System
Fluid
HYDROTEX SYN-NTH ISO 46 (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. Please note that this is a corrected copy for data entry update of oil type.

Wear
All component wear rates are normal.

Contamination
MPC (Membrane Patch Colorimetry) test indicates a light 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.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**PTK0005387**	PTK0005246	PTK0005253
Sample Date		Client Info		**29 Mar 2024**	27 Feb 2024	26 Jan 2024
Machine Age	hrs	Client Info		**64155**	63571	62865
Oil Age	hrs	Client Info		**24**	1270	564
Oil Changed		Client Info		**Not Changd**	Not Changd	Not Changd
Sample Status				**MARGINAL**	ABNORMAL	MARGINAL

CONTAMINATION		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	**3**	6	4
Chromium	ppm	ASTM D5185m	>10	**<1**	0	0
Nickel	ppm	ASTM D5185m	>10	**0**	0	0
Titanium	ppm	ASTM D5185m		**<1**	0	0
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>10	**2**	<1	<1
Lead	ppm	ASTM D5185m	>10	**0**	0	0
Copper	ppm	ASTM D5185m	>75	**<1**	<1	0
Tin	ppm	ASTM D5185m	>10	**0**	0	<1
Vanadium	ppm	ASTM D5185m		**<1**	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**	<1	0
Molybdenum	ppm	ASTM D5185m		**0**	0	0
Manganese	ppm	ASTM D5185m		**0**	<1	<1
Magnesium	ppm	ASTM D5185m		**<1**	<1	0
Calcium	ppm	ASTM D5185m		**5**	3	0
Phosphorus	ppm	ASTM D5185m		**164**	111	122
Zinc	ppm	ASTM D5185m		**11**	11	8
Sulfur	ppm	ASTM D5185m		**0**	0	16

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

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	**173**	201	135
Particles >6µm		ASTM D7647	>1300	**59**	42	50
Particles >14µm		ASTM D7647	>160	**7**	6	8
Particles >21µm		ASTM D7647	>40	**1**	3	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**	15/13/10	14/13/10

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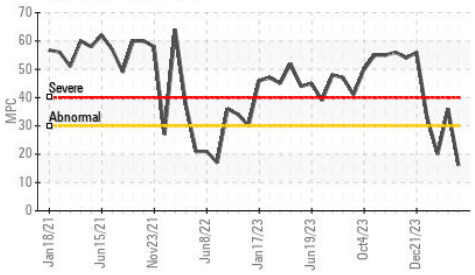
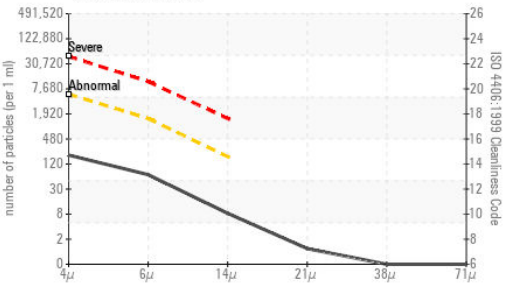
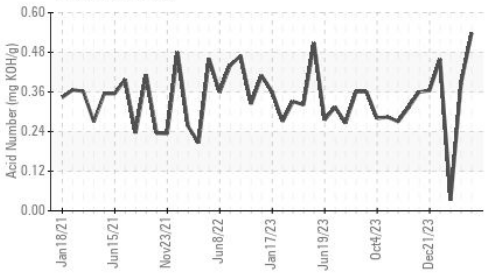
Varnish Potential



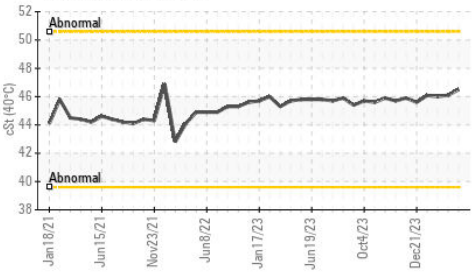
Particle Count



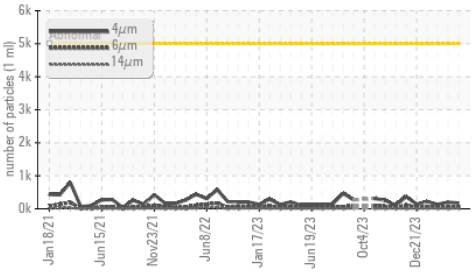
Acid Number



Viscosity @ 40°C



Particle Trend

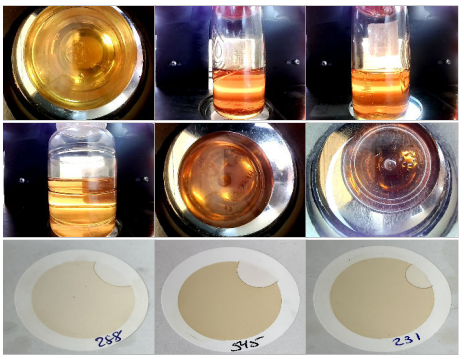


FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.538**	0.385	0.032
MPC Varnish Potential	Scale	ASTM D7843	>15	▲ **16**	▲ 36	▲ 20

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		**46.5**	46.1	46.0

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					
MPC					



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PTK0005387
Lab Number : 06141288
Unique Number : 10966096
Test Package : MOB 2 (Additional Tests: MPC)

Received : 08 Apr 2024
Tested : 18 Apr 2024
Diagnosed : 18 Apr 2024 - Doug Bogart

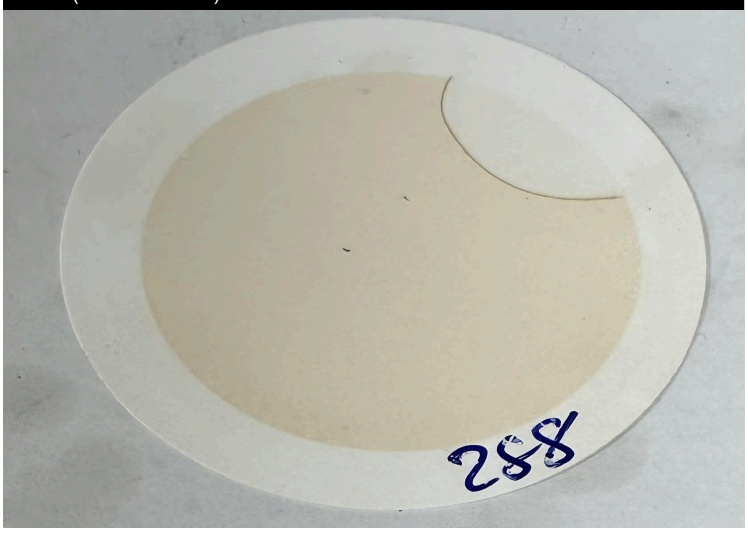
To discuss this sample report, contact Customer Service at 1-800-237-1369.
** - Denotes test methods that are outside of the ISO 17025 scope of accreditation.*
Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

NIAGARA BOTTLING
11031 88TH AVE
PLEASANT PRAIRIE, WI
US 53158
Contact: AJ
T: (909)239-7599
F:

Report Id: NIAPLE [WUSCAR] 06141288 (Generated: 04/18/2024 09:22:30) Rev: 2

Contact/Location: AJ ? - NIAPLE

MPC (Varnish Test)



Sample Color & Clarity

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