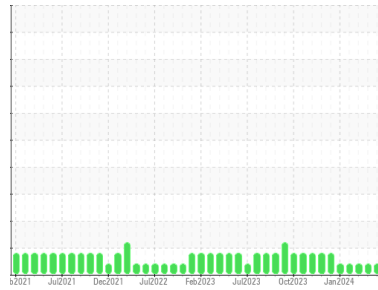




OIL ANALYSIS REPORT

Sample Rating Trend



INSOLUBLES



Machine Id

Press #3 6561231

Component

Hydraulic System

Fluid

FIRE-RESISTANT FLUID 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. We recommend an early resample to monitor this condition.

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.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		PTK0005374	PTK0005387	PTK0005246
Sample Date	Client Info		02 May 2024	29 Mar 2024	27 Feb 2024
Machine Age	hrs	Client Info	64865	64155	63571
Oil Age	hrs	Client Info	734	24	1270
Oil Changed	Client Info		Not Changed	Not Changed	Not Changed
Sample Status			ABNORMAL	MARGINAL	ABNORMAL

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >20	4	3	6
Chromium	ppm	ASTM D5185m >10	0	<1	0
Nickel	ppm	ASTM D5185m >10	0	0	0
Titanium	ppm	ASTM D5185m	0	<1	0
Silver	ppm	ASTM D5185m	<1	0	0
Aluminum	ppm	ASTM D5185m >10	0	2	<1
Lead	ppm	ASTM D5185m >10	0	0	0
Copper	ppm	ASTM D5185m >75	<1	<1	<1
Tin	ppm	ASTM D5185m >10	0	0	0
Vanadium	ppm	ASTM D5185m	<1	<1	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 5	0	0	0
Barium	ppm	ASTM D5185m 5	0	0	<1
Molybdenum	ppm	ASTM D5185m 5	0	0	0
Manganese	ppm	ASTM D5185m	0	0	<1
Magnesium	ppm	ASTM D5185m 5	0	<1	<1
Calcium	ppm	ASTM D5185m 50	2	5	3
Phosphorus	ppm	ASTM D5185m 175	139	164	111
Zinc	ppm	ASTM D5185m 62	13	11	11
Sulfur	ppm	ASTM D5185m 500	11	0	0

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	2	2	<1
Sodium	ppm	ASTM D5185m	1	0	1
Potassium	ppm	ASTM D5185m >20	0	1	<1
Water	%	ASTM D6304 >55	NEG	NEG	NEG

FLUID CLEANLINESS

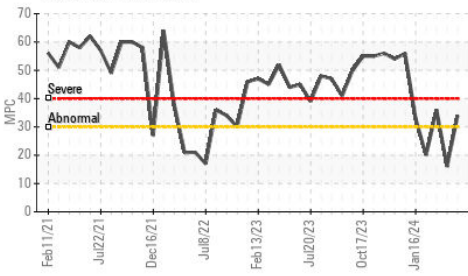
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	186	173	201
Particles >6µm	ASTM D7647	>1300	20	59	42
Particles >14µm	ASTM D7647	>160	3	7	6
Particles >21µm	ASTM D7647	>40	1	1	3
Particles >38µm	ASTM D7647	>10	0	0	0
Particles >71µm	ASTM D7647	>3	0	0	0
Oil Cleanliness	ISO 4406 (c)	>19/17/14	15/11/9	15/13/10	15/13/10

FLUID DEGRADATION

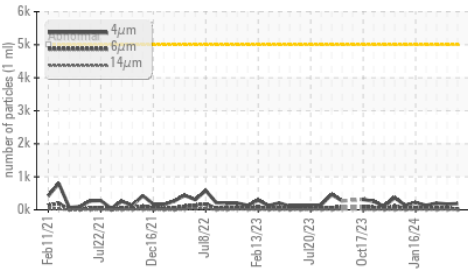
	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 3.63	0.48	0.538	0.385
MPC Varnish Potential	Scale	ASTM D7843 >15	▲ 34	▲ 16	▲ 36

OIL ANALYSIS REPORT

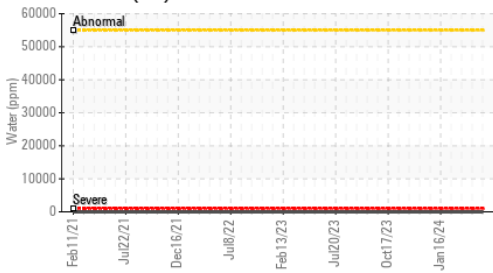
▲ Varnish Potential



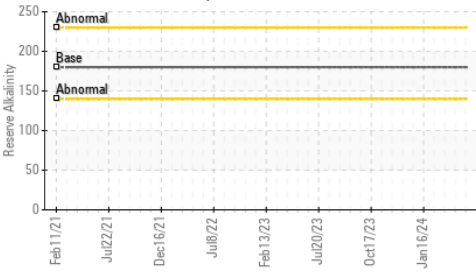
Particle Trend



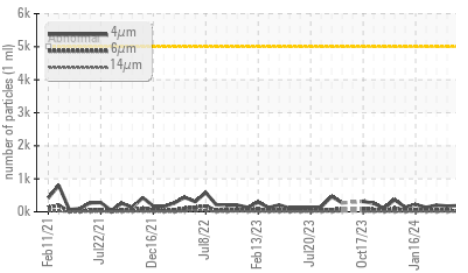
Water (KF)



Reserve Alkalinity



Particle Trend



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>55	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	46.3	46.5

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color

Bottom

MPC

GRAPHS

Ferrous Alloys

Particle Count

Non-ferrous Metals

Acid Number

Viscosity @ 40°C



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PTK0005374 **Received** : 16 May 2024
Lab Number : 06181286 **Tested** : 10 Jun 2024
Unique Number : 11032612 **Diagnosed** : 10 Jun 2024 - Doug Bogart
Test Package : MOB 2 (Additional Tests: KF, MPC, pH, ReserveAlk)

NIAGARA BOTTLING
 11031 88TH AVE
 PLEASANT PRAIRIE, WI
 US 53158
 Contact: AJ

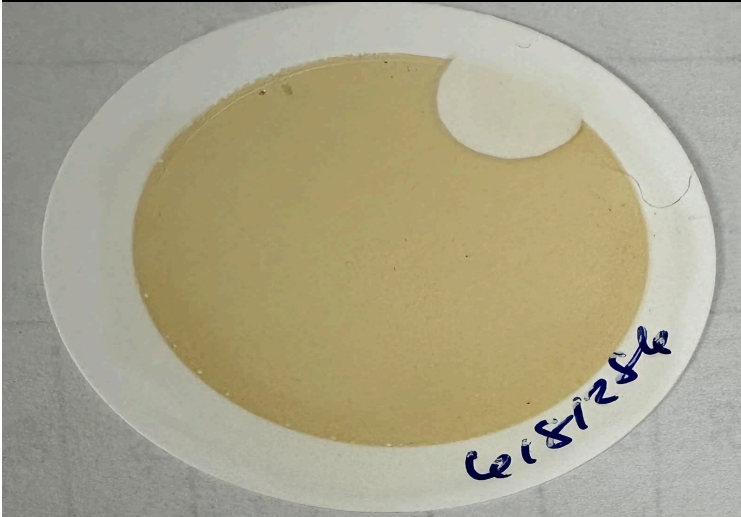
To discuss this sample report, contact Customer Service at 1-800-237-1369.

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

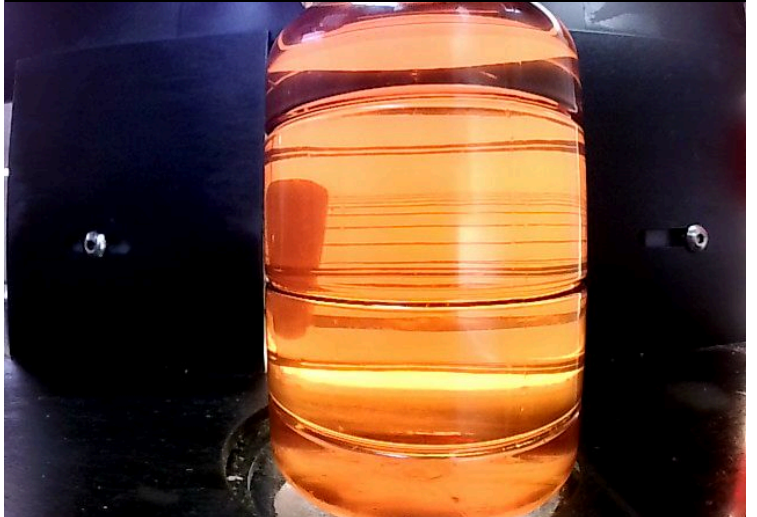
Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

T: (909)239-7599
 F:

MPC (Varnish Test)



Sample Color & Clarity



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