



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id  
**Press 3 6561231**  
 Component  
**Hydraulic System**  
 Fluid  
**FIRE-RESISTANT FLUID ISO 46 (251 GAL)**

## 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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PTK0005647</b>	PTK0005382	PTK0005374
Sample Date		Client Info		<b>28 Jun 2024</b>	31 May 2024	02 May 2024
Machine Age	hrs	Client Info		<b>66111</b>	65524	64865
Oil Age	hrs	Client Info		<b>1980</b>	1393	734
Filter Age	hrs	Client Info		<b>587</b>	659	710
Oil Changed		Client Info		<b>Not Changed</b>	Not Changed	Not Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>20	<b>6</b>	5	4
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	0
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Aluminum	ppm	ASTM D5185m	>10	<b>2</b>	0	0
Lead	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	0
Copper	ppm	ASTM D5185m	>75	<b>1</b>	0	<1
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## 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.

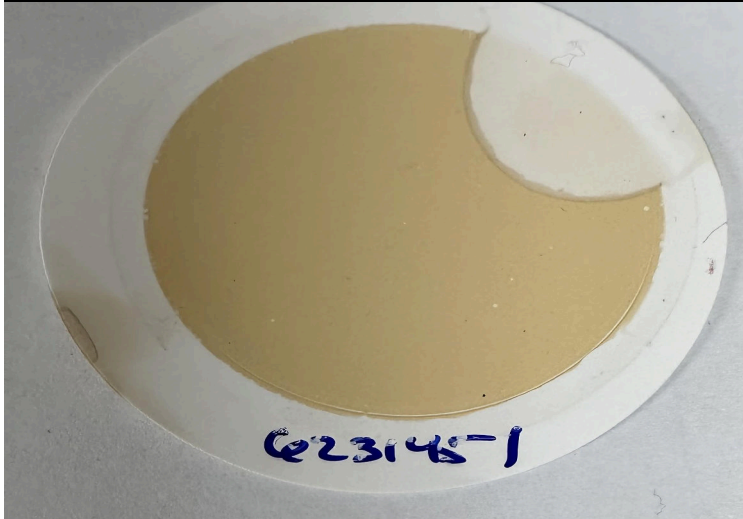
Silicon	ppm	ASTM D5185m	>20	<b>2</b>	2	2
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	0	0
Water	%	ASTM D6304	>55	<b>NEG</b>	NEG	NEG
MPC Varnish Potential	Scale	ASTM D7843	>15	<b>▲ 32</b>	▲ 31	▲ 34
Particles >4µm		ASTM D7647	>5000	<b>114</b>	56	186
Particles >6µm		ASTM D7647	>1300	<b>38</b>	17	20
Particles >14µm		ASTM D7647	>160	<b>6</b>	4	3
Particles >21µm		ASTM D7647	>40	<b>2</b>	1	1
Particles >38µm		ASTM D7647	>10	<b>0</b>	0	0
Particles >71µm		ASTM D7647	>3	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>14/12/10</b>	13/11/9	15/11/9
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>55	<b>NEG</b>	NEG	NEG

## FLUID CONDITION

The AN level is acceptable for this fluid.

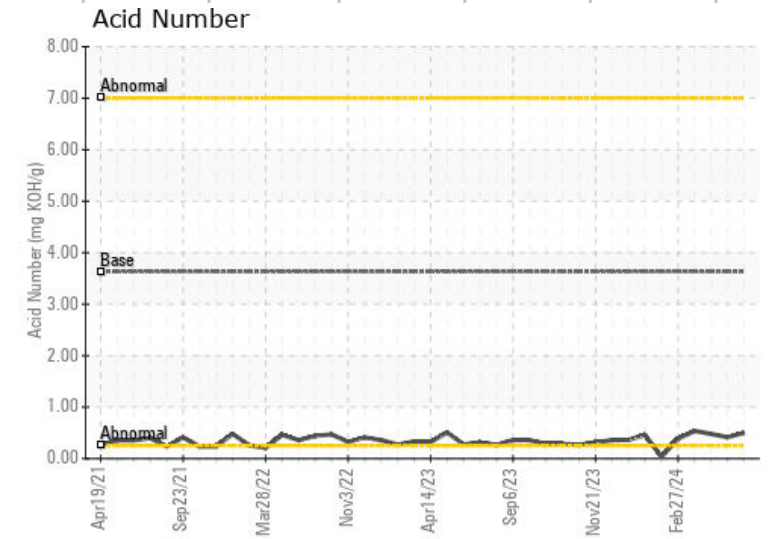
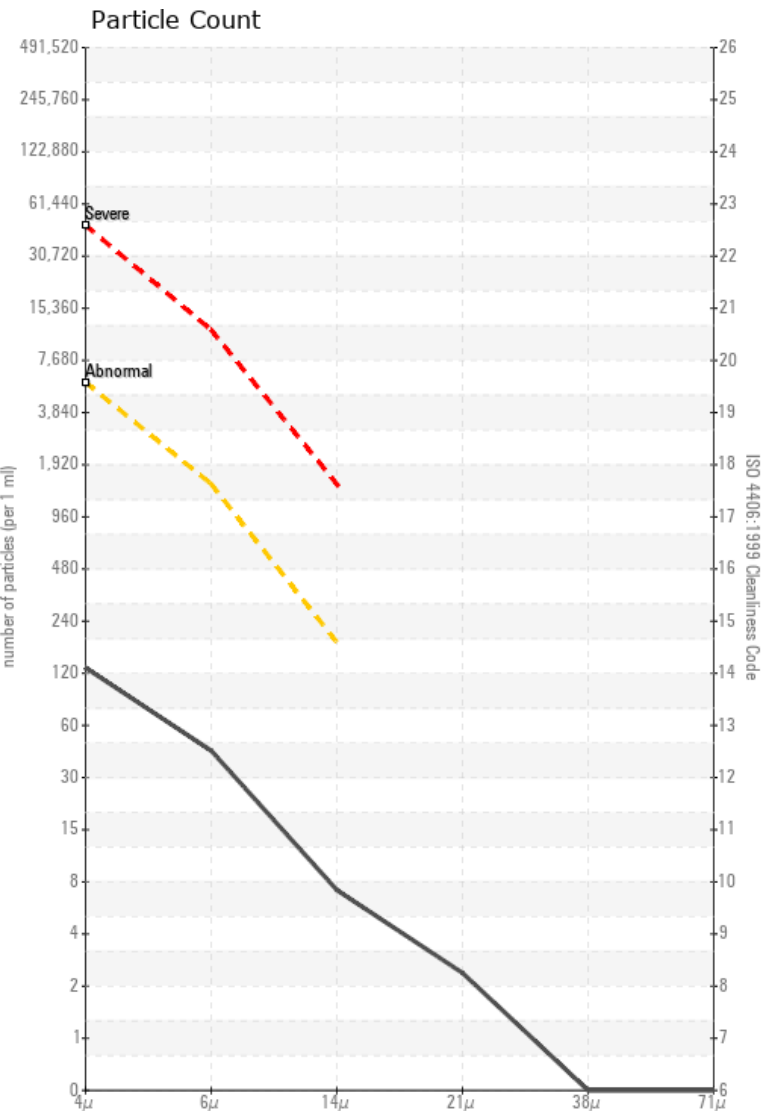
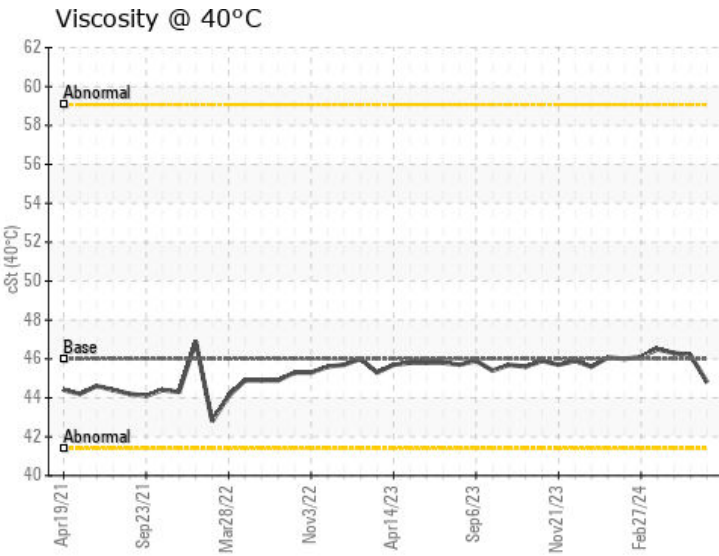
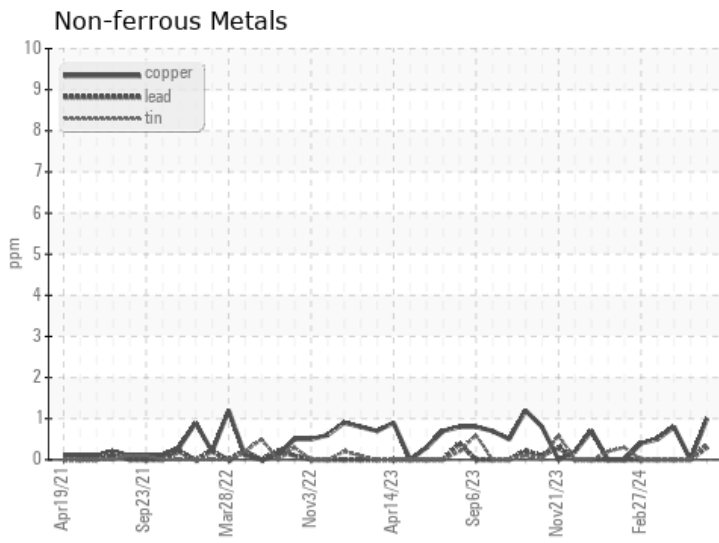
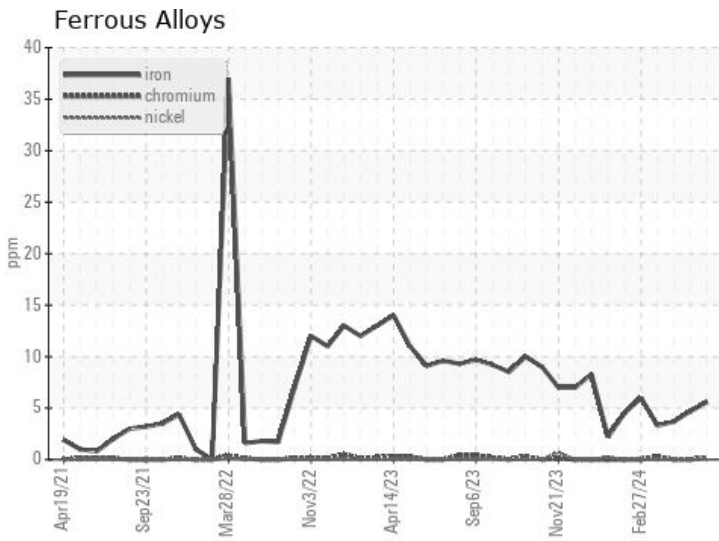
Sodium	ppm	ASTM D5185m		<b>0</b>	<1	1
Boron	ppm	ASTM D5185m	5	<b>0</b>	0	0
Barium	ppm	ASTM D5185m	5	<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185m	5	<b>&lt;1</b>	0	0
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Magnesium	ppm	ASTM D5185m	5	<b>&lt;1</b>	0	0
Calcium	ppm	ASTM D5185m	50	<b>&lt;1</b>	1	2
Phosphorus	ppm	ASTM D5185m	175	<b>125</b>	139	139
Zinc	ppm	ASTM D5185m	62	<b>13</b>	10	13
Sulfur	ppm	ASTM D5185m	500	<b>0</b>	17	11
Acid Number (AN)	mg KOH/g	ASTM D8045	3.63	<b>0.501</b>	0.414	0.48
Visc @ 40°C	cSt	ASTM D445	46	<b>44.8</b>	46.2	46.3

MPC (Varnish Test)



Sample Color & Clarity





**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PTK0005647  
**Lab Number** : 06231451  
**Unique Number** : 11114944  
**Test Package** : MOB 2 ( Additional Tests: KF, MPC, pH, ReserveAlk )  
**Received** : 09 Jul 2024  
**Tested** : 16 Jul 2024  
**Diagnosed** : 16 Jul 2024 - Jonathan Hester

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

Certificate L2367  
 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)

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