



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**NISSE PRESS 28 (S/N S180151)**  
 Component  
**Hydraulic System**  
 Fluid  
**AW HYDRAULIC OIL ISO 68 (185 GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0768404</b>	WC0534566	WC0430855
Sample Date		Client Info		<b>15 May 2023</b>	23 May 2022	06 Mar 2021
Machine Age		Client Info		<b>0</b>	0	0
Oil Age		Client Info		<b>0</b>	0	0
Filter Age		Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	N/A	N/A
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	ATTENTION	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>20	<b>5</b>	4	5
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	2
Nickel	ppm	ASTM D5185m	>20	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>0</b>	0	0
Lead	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	1
Copper	ppm	ASTM D5185m	>20	<b>12</b>	7	40
Tin	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

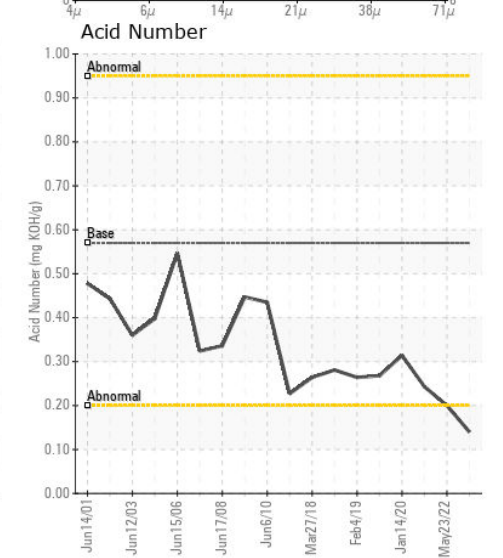
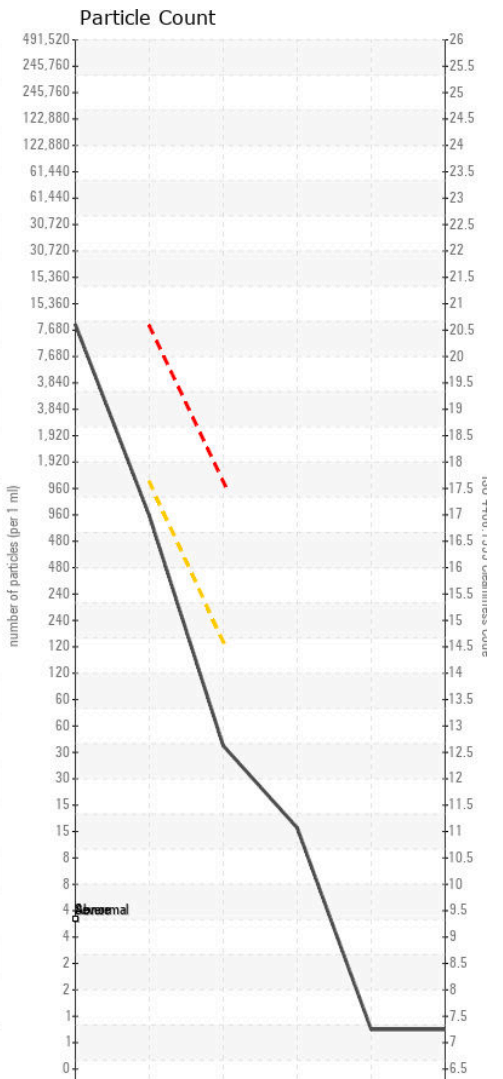
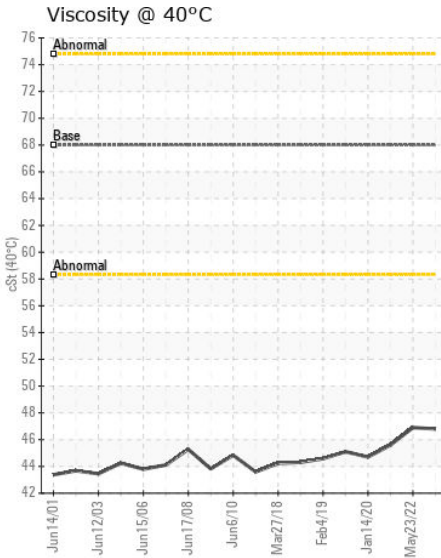
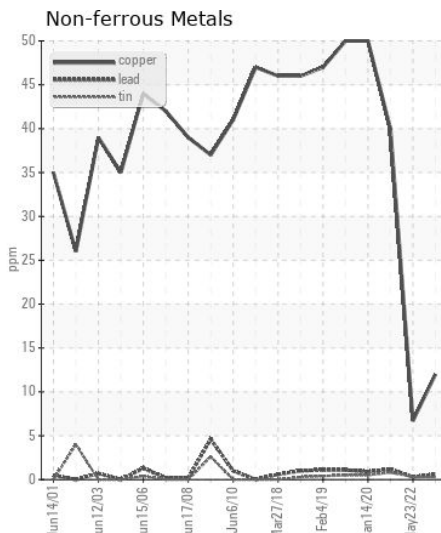
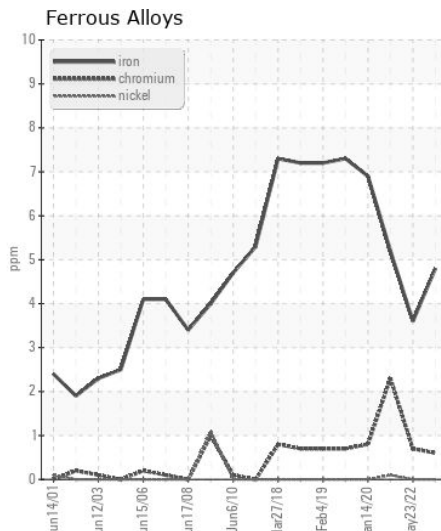
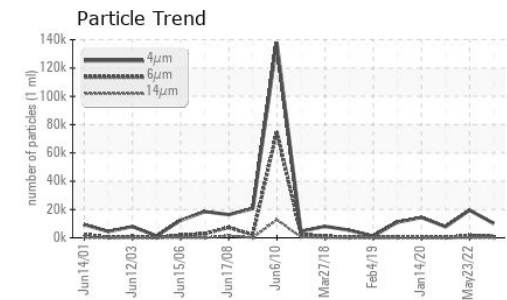
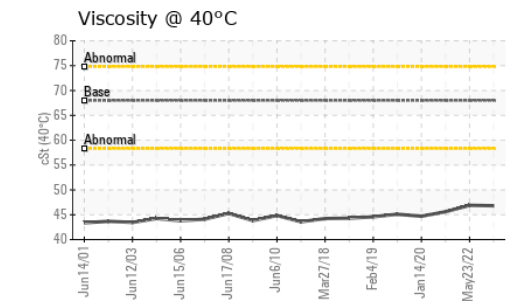
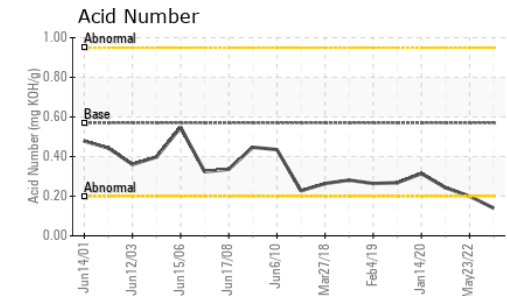
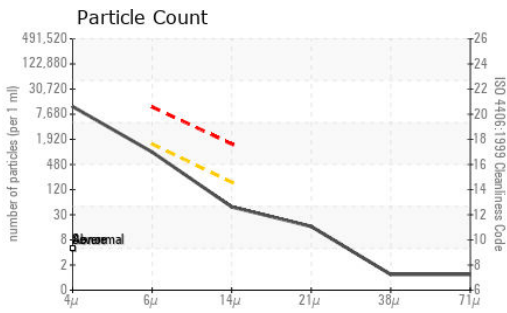
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>15	<b>&lt;1</b>	<1	0
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	<1	0
Water		WC Method	>0.05	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647		<b>10183</b>	19482	7839
Particles >6µm		ASTM D7647	>1300	<b>834</b>	1668	148
Particles >14µm		ASTM D7647	>160	<b>41</b>	79	14
Particles >21µm		ASTM D7647	>40	<b>14</b>	15	5
Particles >38µm		ASTM D7647	>10	<b>1</b>	1	0
Particles >71µm		ASTM D7647	>3	<b>1</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>-/17/14	<b>21/17/13</b>	21/18/13	20/14/11
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	>0.05	<b>NEG</b>	NEG	NEG

## FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>0</b>	0	0
Boron	ppm	ASTM D5185m	5	<b>0</b>	0	0
Barium	ppm	ASTM D5185m	5	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	5	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m		<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185m	25	<b>&lt;1</b>	<1	3
Calcium	ppm	ASTM D5185m	200	<b>12</b>	10	55
Phosphorus	ppm	ASTM D5185m	300	<b>177</b>	163	350
Zinc	ppm	ASTM D5185m	370	<b>72</b>	62	341
Sulfur	ppm	ASTM D5185m	2500	<b>1011</b>	703	1465
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	<b>0.14</b>	0.20	0.243
Visc @ 40°C	cSt	ASTM D445	68	<b>46.8</b>	46.9	45.6



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0768404  
**Lab Number** : 05873175  
**Unique Number** : 10512959  
**Test Package** : IND 2  
**Received** : 14 Jun 2023  
**Tested** : 15 Jun 2023  
**Diagnosed** : 15 Jun 2023 - Doug Bogart

**VIKING PLASTICS**  
 1 VIKING ST  
 CORRY, PA  
 US 16407  
 Contact: JOHN TRIKUR  
 jtrikur@vikingplastics.com  
 T: (814)664-8671  
 F: (814)664-7797

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)