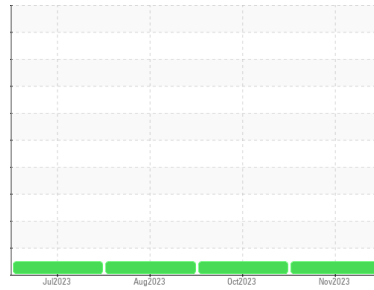




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**W16B**  
 Component  
**Hydraulic System**  
 Fluid  
**MIL-PRF-83282 (--- GAL)**

## DIAGNOSIS

### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

Discrete particle counts [100 ml] 5-15µm = 12500, 15-25µm = 1900, 25-50µm = 500, 50-100µm = 0, >100µm = 0. The amount and size of particulates present in the system are acceptable. Class 6. Chlorine is 17.2 ppm.

### 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	<b>WC0874931</b>	WC0768837	WC0768778
Sample Date	Client Info	<b>10 Nov 2023</b>	12 Oct 2023	08 Aug 2023
Machine Age	hrs Client Info	<b>0</b>	0	0
Oil Age	hrs Client Info	<b>0</b>	0	0
Oil Changed	Client Info	<b>N/A</b>	N/A	Not Changd
Sample Status		<b>NORMAL</b>	NORMAL	NORMAL

## WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >20	<b>0</b>	0	0
Chromium	ppm ASTM D5185m >20	<b>0</b>	<1	0
Nickel	ppm ASTM D5185m >20	<b>0</b>	0	0
Titanium	ppm ASTM D5185m	<b>0</b>	<1	<1
Silver	ppm ASTM D5185m	<b>0</b>	<1	0
Aluminum	ppm ASTM D5185m >20	<b>0</b>	1	<1
Lead	ppm ASTM D5185m >20	<b>0</b>	<1	0
Copper	ppm ASTM D5185m >20	<b>1</b>	0	<1
Tin	ppm ASTM D5185m >20	<b>0</b>	0	<1
Vanadium	ppm ASTM D5185m	<b>0</b>	0	<1
Cadmium	ppm ASTM D5185m	<b>0</b>	<1	0

## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m	<b>0</b>	0	0
Barium	ppm ASTM D5185m	<b>2</b>	24	4
Molybdenum	ppm ASTM D5185m	<b>0</b>	0	0
Manganese	ppm ASTM D5185m	<b>&lt;1</b>	0	<1
Magnesium	ppm ASTM D5185m	<b>0</b>	0	7
Calcium	ppm ASTM D5185m	<b>0</b>	<1	0
Phosphorus	ppm ASTM D5185m	<b>713</b>	689	563
Zinc	ppm ASTM D5185m	<b>0</b>	0	17
Sulfur	ppm ASTM D5185m	<b>44</b>	58	39

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >15	<b>18</b>	21	18
Sodium	ppm ASTM D5185m	<b>2</b>	0	2
Potassium	ppm ASTM D5185m >20	<b>0</b>	2	<1
Chlorine Content	ppm ASTM D5185m	<b>17.2</b>	18.0	---
Water	% ASTM D6304 >0.05	<b>0.010</b>	0.012	---
ppm Water	ppm ASTM D6304 >500	<b>102</b>	121.8	---

## FLUID CLEANLINESS

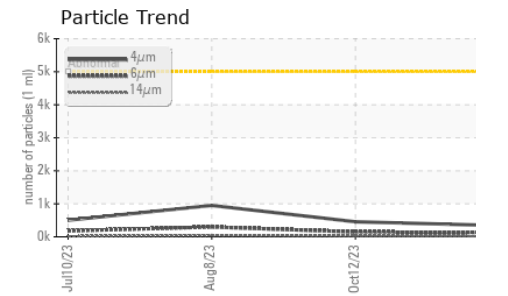
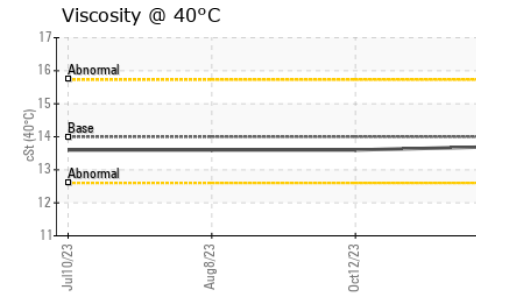
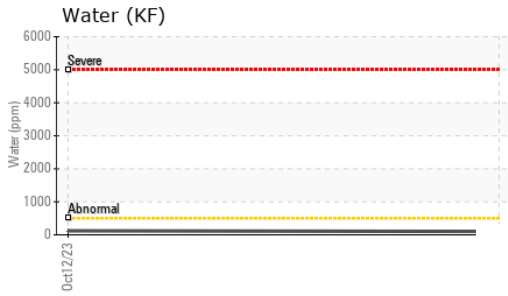
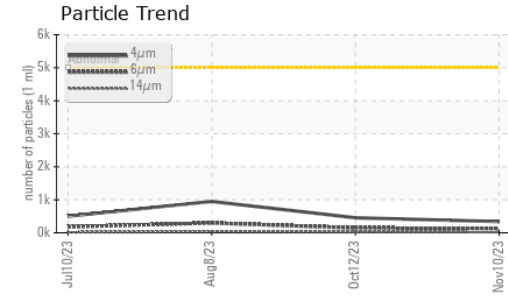
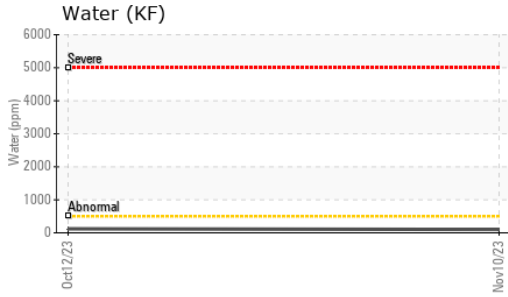
method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >5000	<b>340</b>	455	951
Particles >6µm	ASTM D7647 >1300	<b>122</b>	149	298
Particles >14µm	ASTM D7647 >160	<b>16</b>	24	38
Particles >21µm	ASTM D7647 >40	<b>4</b>	5	6
Particles >38µm	ASTM D7647 >10	<b>0</b>	0	0
Particles >71µm	ASTM D7647 >3	<b>0</b>	0	0
Oil Cleanliness	ISO 4406 (c) >19/17/14	<b>16/14/11</b>	16/14/12	17/15/12

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D8045 0.1	<b>0.085</b>	0.048	0.123



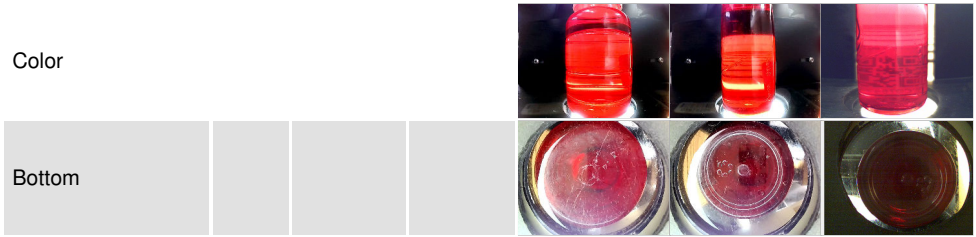
# OIL ANALYSIS REPORT



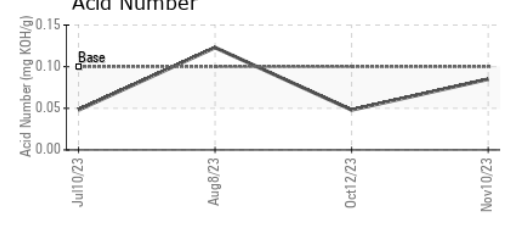
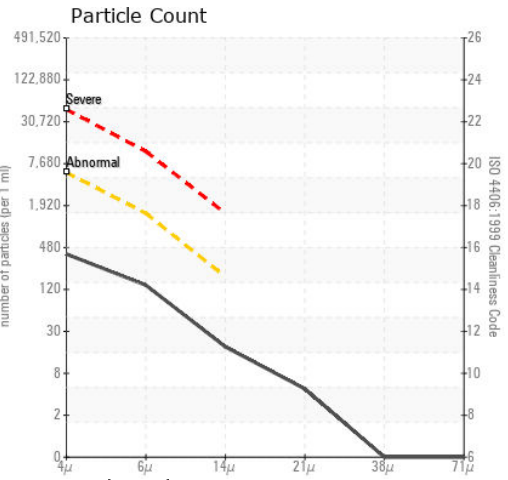
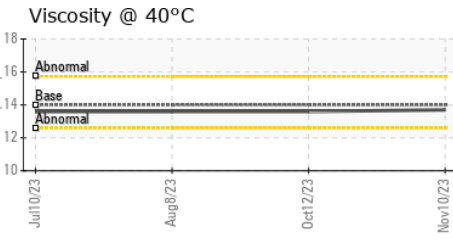
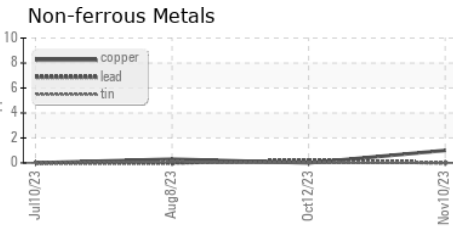
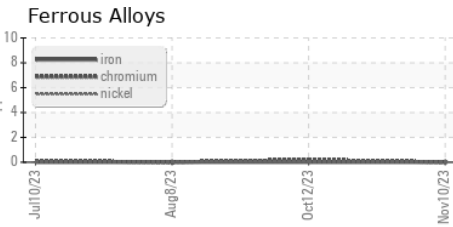
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	14.0	13.7	13.6

SAMPLE IMAGES	method	limit/base	current	history1	history2
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## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0874931 **Received** : 08 Dec 2023  
**Lab Number** : 06030092 **Diagnosed** : 13 Dec 2023  
**Unique Number** : 10779883 **Diagnostician** : Jonathan Hester  
**Test Package** : IND 2 ( Additional Tests: CHLORINEXRF, KF )

**NORTHLAND-WILLETTE INC**  
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 F: (508)699-4017

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)