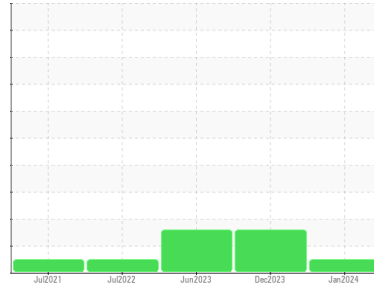




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**W16**  
 Component  
**Hydraulic System**  
 Fluid  
**MIL-PRF-83282 (50 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 = 12100, 15-25µm = 1200, 25-50µm = 400, 50-100µm = 0, >100µm = 0. The water content is negligible. The amount and size of particulates present in the system are acceptable. Chlorine value is 25.8.

### 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>WC0874949</b>	WC0874940	WC0768908
Sample Date	Client Info		<b>09 Jan 2024</b>	06 Dec 2023	05 Jun 2023
Machine Age	hrs	Client Info	<b>0</b>	83282	0
Oil Age	hrs	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>N/A</b>	Filtered	N/A
Sample Status			<b>NORMAL</b>	MARGINAL	MARGINAL

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >20	<b>0</b>	<1	0
Chromium	ppm	ASTM D5185m >20	<b>0</b>	<1	0
Nickel	ppm	ASTM D5185m >20	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m	<b>0</b>	<1	0
Silver	ppm	ASTM D5185m	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >20	<b>0</b>	1	0
Lead	ppm	ASTM D5185m >20	<b>0</b>	<1	0
Copper	ppm	ASTM D5185m >20	<b>0</b>	<1	0
Tin	ppm	ASTM D5185m >20	<b>&lt;1</b>	<1	0
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	0
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>1</b>	14	13
Molybdenum	ppm	ASTM D5185m	<b>0</b>	1	0
Manganese	ppm	ASTM D5185m	<b>0</b>	0	0
Magnesium	ppm	ASTM D5185m	<b>&lt;1</b>	0	<1
Calcium	ppm	ASTM D5185m	<b>1</b>	<1	2
Phosphorus	ppm	ASTM D5185m	<b>664</b>	635	696
Zinc	ppm	ASTM D5185m	<b>0</b>	0	0
Sulfur	ppm	ASTM D5185m	<b>65</b>	0	110

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	<b>17</b>	▲ 17	▲ 19
Sodium	ppm	ASTM D5185m	<b>&lt;1</b>	0	<1
Potassium	ppm	ASTM D5185m >20	<b>0</b>	1	0
Chlorine Content	ppm	ASTM D5185m	<b>25.8</b>	18.6	---
Water	%	ASTM D6304 >0.05	<b>0.008</b>	0.006	---
ppm Water	ppm	ASTM D6304 >500	<b>83</b>	61	---

## FLUID CLEANLINESS

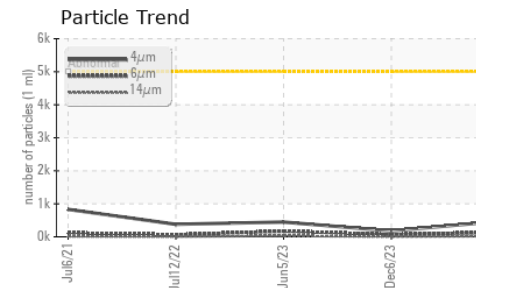
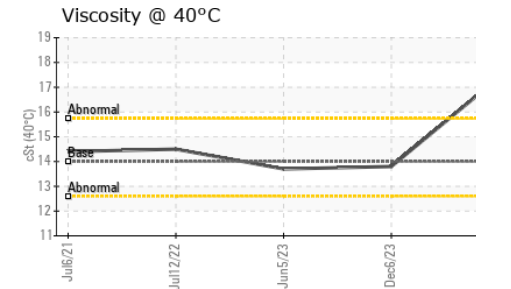
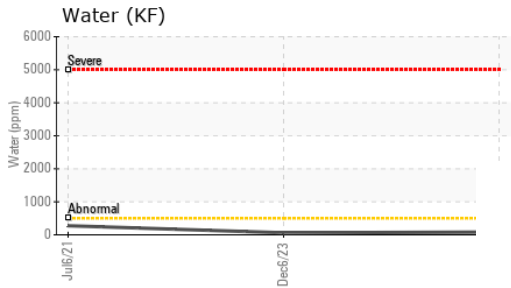
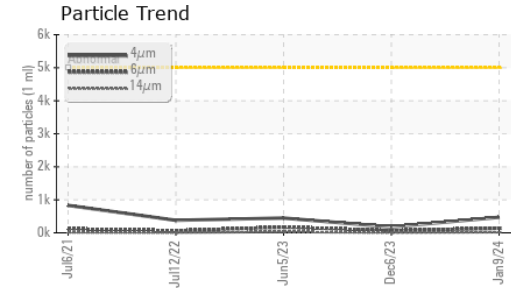
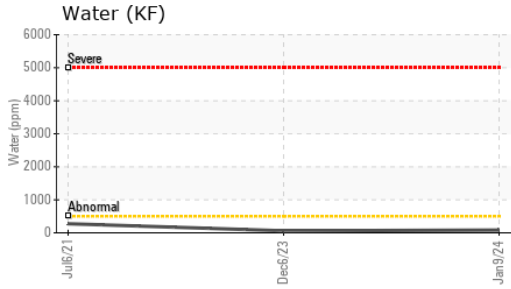
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	<b>471</b>	178	447
Particles >6µm	ASTM D7647	>1300	<b>137</b>	63	170
Particles >14µm	ASTM D7647	>160	<b>16</b>	5	23
Particles >21µm	ASTM D7647	>40	<b>4</b>	1	6
Particles >38µm	ASTM D7647	>10	<b>0</b>	0	0
Particles >71µm	ASTM D7647	>3	<b>0</b>	0	0
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<b>16/14/11</b>	15/13/10	16/15/12

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.1	<b>0.063</b>	0.044	0.071



# OIL ANALYSIS REPORT

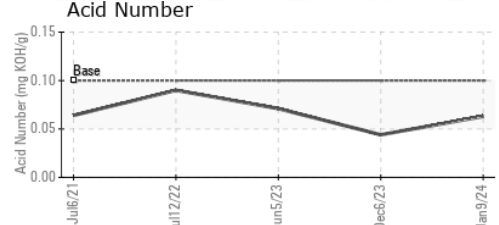
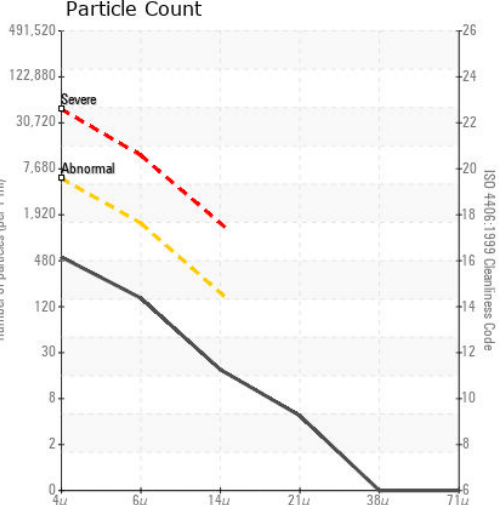
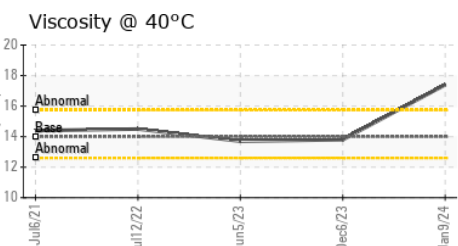
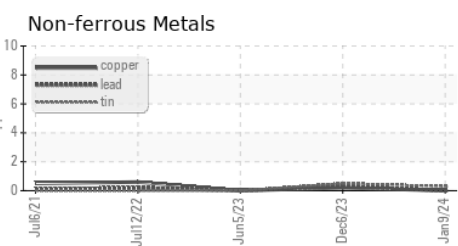
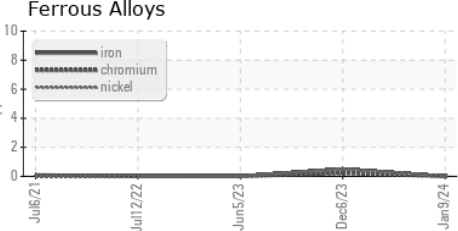


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	17.4	13.8

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				no image	no image
Bottom				no image	no image

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0874949 **Received** : 18 Jan 2024  
**Lab Number** : 06064339 **Diagnosed** : 22 Jan 2024  
**Unique Number** : 10835721 **Diagnostician** : Doug Bogart  
**Test Package** : IND 2 ( Additional Tests: CHLORINEXRF, KF )

**NORTHLAND-WILLETTE INC**  
 12 HIGH ST  
 PLAINVILLE, MA  
 US 02762  
 Contact: JIM ALLEN  
 JALLEN@NWHYDINC.COM  
 T:  
 F: (508)699-4017

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)