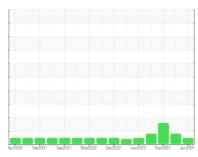


# **OIL ANALYSIS REPORT**

## Sample Rating Trend



NORMAL



PUMP STAND

Hydraulic System

MILITARY MIL-H-83282C (--- GAL)

### DIAGNOSIS

## Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

## Contamination

The system cleanliness is acceptable for your target SAE AS4059 (replaces NAS 1638) cleanliness code. There is no indication of any contamination in the oil. Chlorine measured at 7.80 ppm.

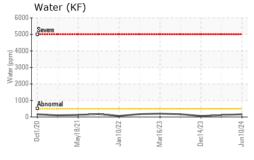
### **Fluid Condition**

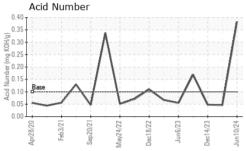
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

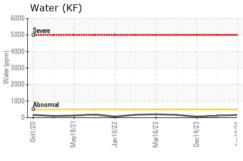
		4pr2020 Feb	2021 Sep2021 May20	22 Des2022 Jun2023 Des20	23 Jun2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0926344	WC0768785	WC0874944
Sample Date		Client Info		10 Jun 2024	18 Mar 2024	14 Dec 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Filtered	N/A	Filtered
Sample Status				NORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	0	0	0
Chromium	ppm	ASTM D5185m	>20	0	0	0
Nickel	ppm	ASTM D5185m	>20	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	0	0	0
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m	>20	0	0	0
Tin	ppm	ASTM D5185m	>20	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		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		0	0	2
Calcium	ppm	ASTM D5185m		0	0	4
Phosphorus	ppm	ASTM D5185m		766	747	698
Zinc	ppm	ASTM D5185m		0	0	0
Sulfur	ppm	ASTM D5185m		0	0	13
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	0	1	<u>^</u> 22
Sodium	ppm	ASTM D5185m		<1	<1	0
Potassium	ppm	ASTM D5185m	>20	0	0	0
Chlorine Content	ppm	ASTM D5185m		7.80	0.000	8.60
Water	%	ASTM D6304	>0.05	0.016	0.010	0.006
ppm Water	ppm	ASTM D6304	>500	167	109	62
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles 5-15µm	count	*NAS 1638	>16000	2787	<u> </u>	9320
Particles 15-25µm	count	*NAS 1638	>2850	499	1925	830
Particles 25-50µm	count	*NAS 1638	>506	243	<u>▲</u> 647	246
Particles 50-100µm	count	*NAS 1638	>90	15	38	17
Particles >100μm	count	*NAS 1638	>16	0	0	0
NAS 1638	Class	*NAS 1638	>6	5	9	6
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.1	0.383	0.046	0.048

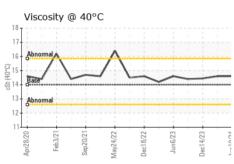


## **OIL ANALYSIS REPORT**









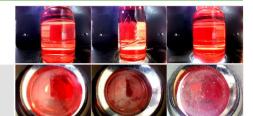
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

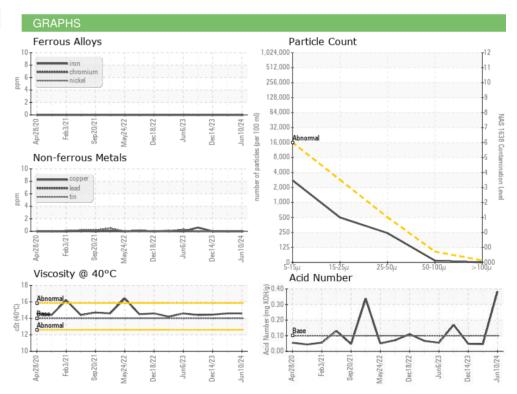
Visc @ 40°C	cSt	ASTM D445	14.0	14.6	14.6	14.45
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Color

SAMPLE IMAGES











Certificate 12367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0926344 Lab Number : 06213971 Unique Number : 11086835

Received **Tested** Diagnosed

: 18 Jun 2024 : 27 Jun 2024

: 27 Jun 2024 - Jonathan Hester Test Package : IND 2 ( Additional Tests: CHLORINEXRF, KF, PRTCOUNTNAS )

US 02762 Contact: MIKE BOUCHER mboucher@nwhydinc.com T: (508)699-4016

**NORTHLAND-WILLETTE INC** 

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) 12 HIGH ST

PLAINVILLE, MA