



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	ATTENTION

Machine Id  
**PIERCE LADDER 30**  
Component  
**Hydraulic System**  
Fluid  
**AW HYDRAULIC OIL ISO 46 (--- GAL)**

## RECOMMENDATION

We advise that you check for the source of water entry. We advise that you follow the water drain-off procedure for this component. We recommend an early resample to monitor this condition.

## WEAR

All component wear rates are normal.

## CONTAMINATION

There is a high concentration of water present in the oil.

## FLUID CONDITION

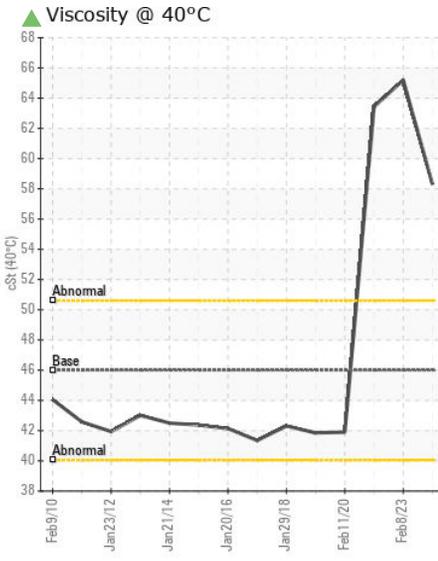
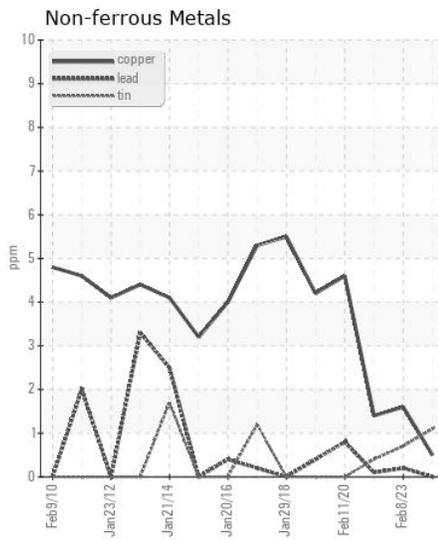
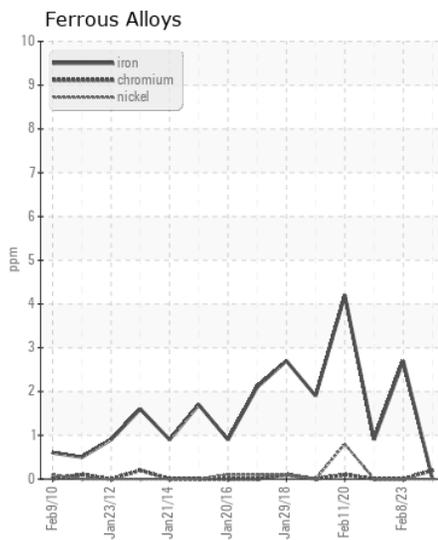
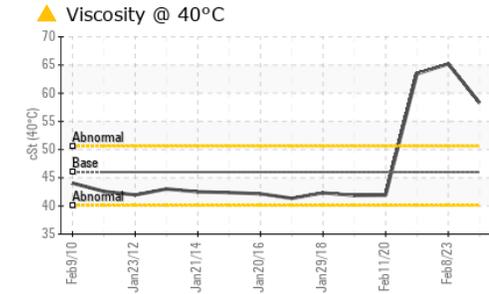
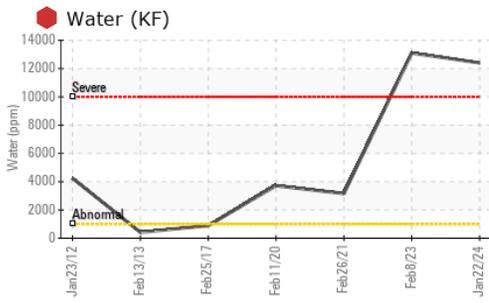
The oil viscosity is higher than normal. Confirm oil type.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0890528</b>	WC0777609	WC0543917
Sample Date		Client Info		<b>22 Jan 2024</b>	08 Feb 2023	26 Feb 2021
Machine Age	hrs	Client Info		<b>1467</b>	0	0
Oil Age	hrs	Client Info		<b>1467</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	Not Changd	N/A
Filter Changed		Client Info		<b>N/A</b>	Not Changd	N/A
Sample Status				<b>SEVERE</b>	SEVERE	ABNORMAL

Iron	ppm	ASTM D5185m	>20	<b>0</b>	3	<1
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	0
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	<1	<1
Aluminum	ppm	ASTM D5185m	>10	<b>0</b>	0	<1
Lead	ppm	ASTM D5185m	>10	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185m	>75	<b>&lt;1</b>	2	1
Tin	ppm	ASTM D5185m	>10	<b>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

Silicon	ppm	ASTM D5185m	>20	<b>0</b>	<1	1
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	0
Water	%	ASTM D6304	>0.1	<b>1.24</b>	1.31	0.316
ppm Water	ppm	ASTM D6304	>1000	<b>12400</b>	13100	3160
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	MILKY	MILKY
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	<b>0.2%</b>	0.2%	0.2%

Sodium	ppm	ASTM D5185m		<b>&lt;1</b>	1	1
Boron	ppm	ASTM D5185m	5	<b>0</b>	4	2
Barium	ppm	ASTM D5185m	5	<b>1</b>	0	0
Molybdenum	ppm	ASTM D5185m	5	<b>0</b>	<1	<1
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Magnesium	ppm	ASTM D5185m	25	<b>0</b>	1	0
Calcium	ppm	ASTM D5185m	200	<b>45</b>	19	25
Phosphorus	ppm	ASTM D5185m	300	<b>216</b>	273	292
Zinc	ppm	ASTM D5185m	370	<b>243</b>	317	322
Sulfur	ppm	ASTM D5185m	2500	<b>802</b>	1037	948
Visc @ 40°C	cSt	ASTM D445	46	<b>58.3</b>	65.2	63.44



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0890528 **Received** : 08 Feb 2024  
**Lab Number** : 06084081 **Tested** : 09 Feb 2024  
**Unique Number** : 10871526 **Diagnosed** : 11 Feb 2024 - Don Baldrige  
**Test Package** : FLEET ( Additional Tests: KF )

**CLEVELAND FIRE DEPT.**  
 P.O. BOX 402  
 CLEVELAND, MS  
 US 38732  
 Contact: CHRIS KAYS

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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