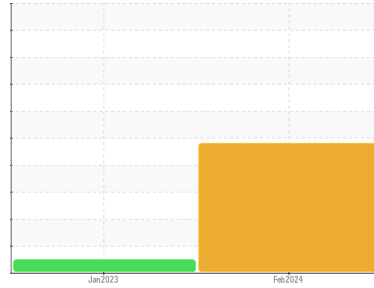




# PROBLEM SUMMARY

Sample Rating Trend



**WATER**

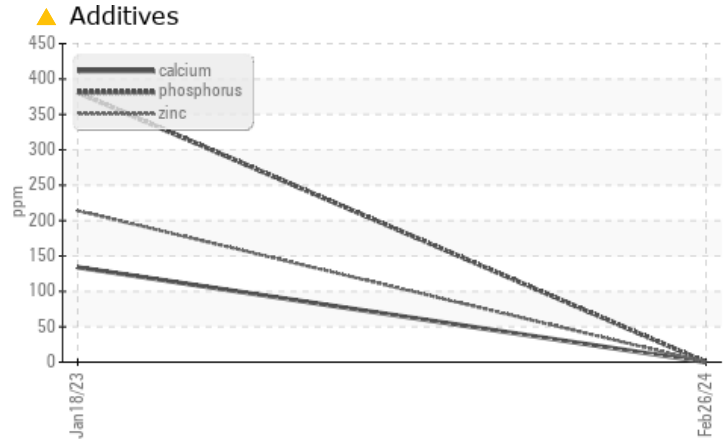
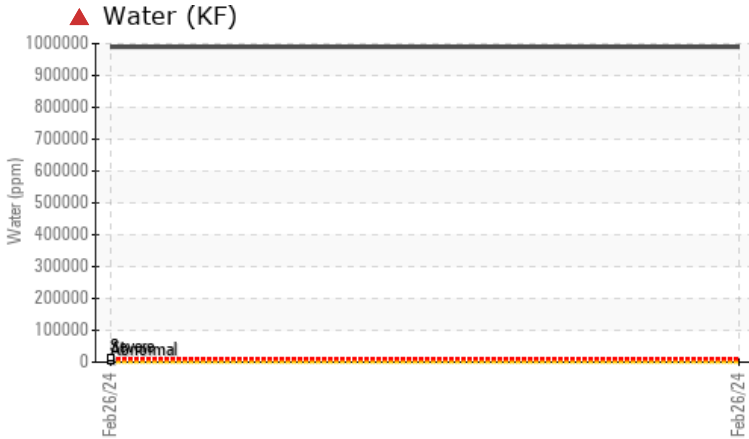


Machine Id  
**E-ONE T18/F159**

Component  
**Hydraulic System**

Fluid  
**AW HYDRAULIC OIL ISO 32 (--- QTS)**

## COMPONENT CONDITION SUMMARY



## RECOMMENDATION

We advise that you check for the source of water entry. We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition.

## PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	NORMAL	---
Phosphorus	ppm	ASTM D5185m	300	▲ 0	381	---
Zinc	ppm	ASTM D5185m	370	▲ 0	214	---
Sulfur	ppm	ASTM D5185m	2500	▲ 0	1771	---
Water	%	ASTM D6304	>0.1	▲ 99.0	---	---
ppm Water	ppm	ASTM D6304	>1000	▲ 990000	---	---
Debris	scalar	*Visual	NONE	▲ MODER	LIGHT	---
Emulsified Water	scalar	*Visual	>0.1	▲ 0.2%	NEG	---

Customer Id: MEMMEMTN  
Sample No.: WC0907025  
Lab Number: 06121274  
Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data:  
Jonathan Hester +1 919-379-4092 x4092  
[jhester@wearcheckusa.com](mailto:jhester@wearcheckusa.com)

To change component or sample information:  
Customer Service +1 1-800-237-1369  
[customerservice@wearcheck.com](mailto:customerservice@wearcheck.com)

## RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Fluid	---	---	?	We recommend that you drain the oil and perform a filter service on this component if not already done.
Change Filter	---	---	?	We recommend that you drain the oil and perform a filter service on this component if not already done.
Resample	---	---	?	We recommend an early resample to monitor this condition.
Check Water Access	---	---	?	We advise that you check for the source of water entry.

## HISTORICAL DIAGNOSIS

18 Jan 2023 Diag: Angela Borella

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

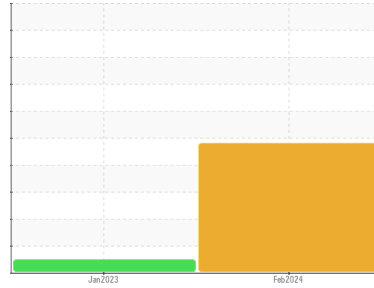
view report





# OIL ANALYSIS REPORT

Sample Rating Trend



WATER



Machine Id  
**E-ONE T18/F159**

Component  
**Hydraulic System**

Fluid  
**AW HYDRAULIC OIL ISO 32 (--- QTS)**

## DIAGNOSIS

### ▲ Recommendation

We advise that you check for the source of water entry. We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition.

### Wear

All component wear rates are normal.

### ▲ Contamination

Sample consists almost entirely of free water. There is a high concentration of water present in the oil. Moderate concentration of visible dirt/debris present in the oil.

### ▲ Fluid Condition

The oil is no longer serviceable due to the presence of contaminants.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0907025</b>	WC0767735	---
Sample Date	Client Info		<b>26 Feb 2024</b>	18 Jan 2023	---
Machine Age	hrs	Client Info	<b>0</b>	1048	---
Oil Age	hrs	Client Info	<b>0</b>	0	---
Oil Changed	Client Info		<b>Not Chngd</b>	Not Chngd	---
Sample Status			<b>SEVERE</b>	NORMAL	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >20	<b>0</b>	1	---
Chromium	ppm	ASTM D5185m >10	<b>0</b>	0	---
Nickel	ppm	ASTM D5185m >10	<b>0</b>	0	---
Titanium	ppm	ASTM D5185m	<b>0</b>	0	---
Silver	ppm	ASTM D5185m	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m >10	<b>4</b>	<1	---
Lead	ppm	ASTM D5185m >10	<b>&lt;1</b>	<1	---
Copper	ppm	ASTM D5185m >75	<b>0</b>	2	---
Tin	ppm	ASTM D5185m >10	<b>0</b>	0	---
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	---
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 5	<b>0</b>	0	---
Barium	ppm	ASTM D5185m 5	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m 5	<b>0</b>	5	---
Manganese	ppm	ASTM D5185m	<b>0</b>	0	---
Magnesium	ppm	ASTM D5185m 25	<b>8</b>	16	---
Calcium	ppm	ASTM D5185m 200	<b>0</b>	134	---
Phosphorus	ppm	ASTM D5185m 300	<b>▲ 0</b>	381	---
Zinc	ppm	ASTM D5185m 370	<b>▲ 0</b>	214	---
Sulfur	ppm	ASTM D5185m 2500	<b>▲ 0</b>	1771	---

## CONTAMINANTS

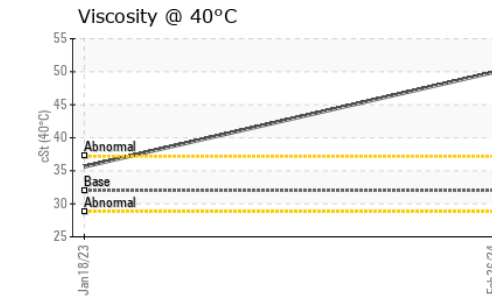
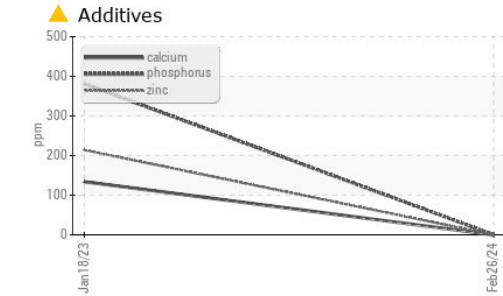
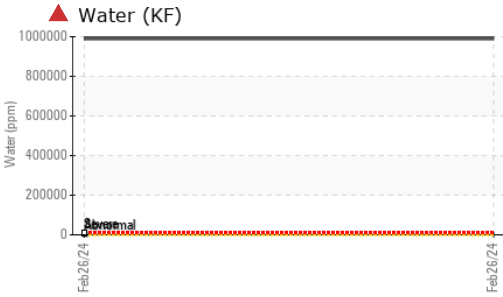
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	<b>0</b>	<1	---
Sodium	ppm	ASTM D5185m	<b>0</b>	2	---
Potassium	ppm	ASTM D5185m >20	<b>11</b>	0	---
Water	%	ASTM D6304 >0.1	<b>▲ 99.0</b>	---	---
ppm Water	ppm	ASTM D6304 >1000	<b>▲ 990000</b>	---	---

## VISUAL

	method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual NONE	<b>NONE</b>	NONE	---
Precipitate	scalar	*Visual NONE	<b>NONE</b>	NONE	---
Silt	scalar	*Visual NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual NONE	<b>▲ MODER</b>	LIGHT	---
Sand/Dirt	scalar	*Visual NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual >0.1	<b>▲ 0.2%</b>	NEG	---
Free Water	scalar	*Visual	<b>NEG</b>	NEG	---



# OIL ANALYSIS REPORT



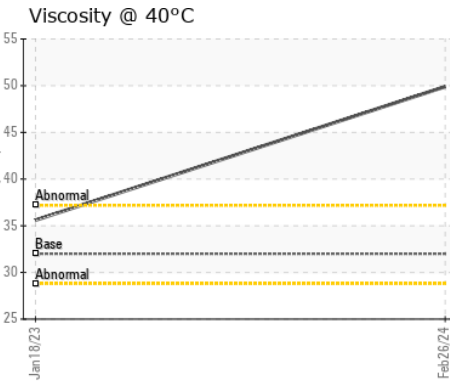
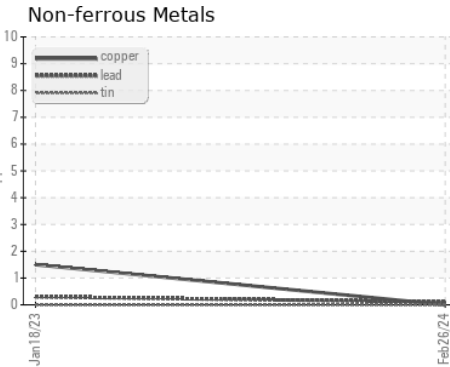
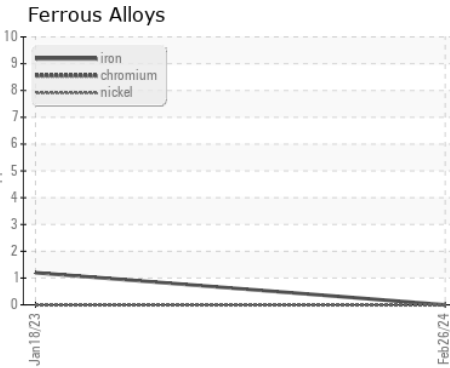
## FLUID PROPERTIES

method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445 32	49.9	35.6	---

## SAMPLE IMAGES

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

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0907025  
**Lab Number** : 06121274  
**Unique Number** : 10930107  
**Test Package** : FLEET ( Additional Tests: KF )

**MEMPHIS FIRE DEPT**  
 354 ADAMS  
 MEMPHIS, TN  
 US 38103

Contact: MARCUS QUARLES  
 MARCUS.QUARLES@MEMPHISTN.GOV

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)

T: (910)320-5380  
 F: (901)576-6191