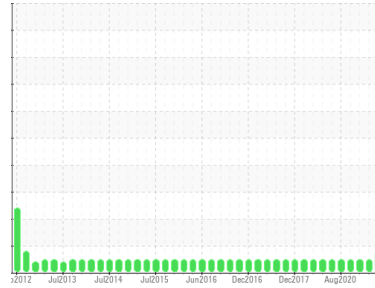




# OIL ANALYSIS REPORT

Sample Rating Trend



**WEAR**



Machine Id  
**STEIGER 1**

Component  
**Diesel Engine**

Fluid  
**SCHAEFFER SUPREME 7000 (8 GAL)**

## DIAGNOSIS

### ▲ Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

### ▲ Wear

The lead level is abnormal. All other component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. 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>WCM2313720</b>	WC0617373	WC0472386
Sample Date	Client Info		<b>10 Aug 2023</b>	11 Jan 2022	16 Aug 2021
Machine Age	hrs	Client Info	<b>31769</b>	31212	30312
Oil Age	hrs	Client Info	<b>557</b>	500	400
Oil Changed	Client Info		<b>Changed</b>	Changed	Changed
Sample Status			<b>ABNORMAL</b>	NORMAL	NORMAL

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>3.0	<b>&lt;1.0</b>	<1.0	<1.0
Water	WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol	WC Method		<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>90	<b>28</b>	15	10
Chromium	ppm	ASTM D5185m	>20	<b>2</b>	2	1
Nickel	ppm	ASTM D5185m	>2	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m	>2	<b>0</b>	<1	<1
Silver	ppm	ASTM D5185m	>2	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185m	>20	<b>2</b>	3	<1
Lead	ppm	ASTM D5185m	>40	<b>▲ 48</b>	21	8
Copper	ppm	ASTM D5185m	>330	<b>6</b>	5	4
Tin	ppm	ASTM D5185m	>15	<b>1</b>	1	<1
Antimony	ppm	ASTM D5185m		<b>---</b>	<1	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Cadmium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m		<b>55</b>	44	33
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	50	<b>90</b>	89	89
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	1000	<b>18</b>	17	8
Calcium	ppm	ASTM D5185m	1400	<b>2671</b>	2567	2398
Phosphorus	ppm	ASTM D5185m	985	<b>1230</b>	1128	1037
Zinc	ppm	ASTM D5185m	1060	<b>1548</b>	1355	1154
Sulfur	ppm	ASTM D5185m	4000	<b>6412</b>	5189	4645

## CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	<b>5</b>	3	3
Sodium	ppm	ASTM D5185m		<b>6</b>	5	5
Potassium	ppm	ASTM D5185m	>20	<b>5</b>	23	30

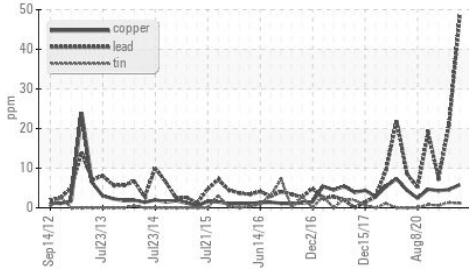
## INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>6	<b>0.3</b>	0.2	0.2
Nitration	Abs/cm	*ASTM D7624	>20	<b>12.5</b>	13.1	11
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>25.1</b>	24.6	21.6

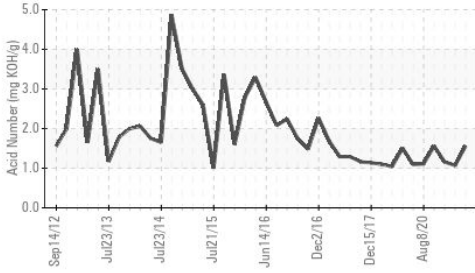


# OIL ANALYSIS REPORT

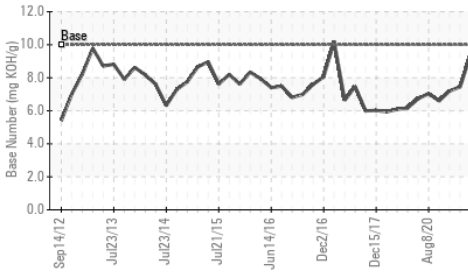
## ▲ Non-ferrous Metals



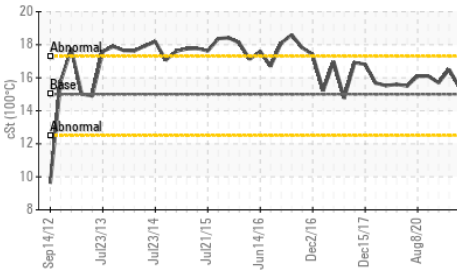
## Acid Number



## Base Number



## Viscosity @ 100°C

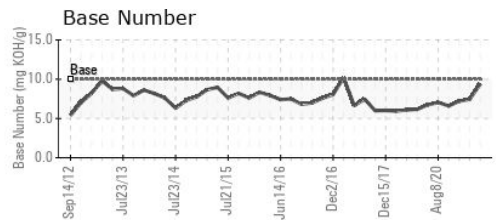
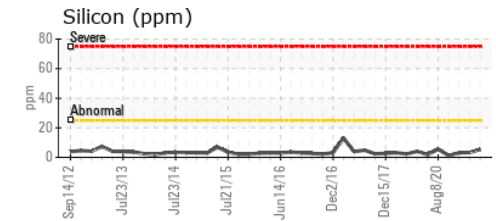
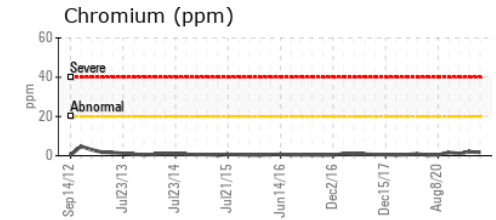
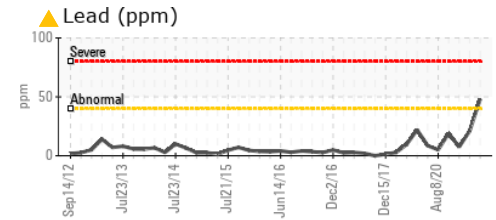
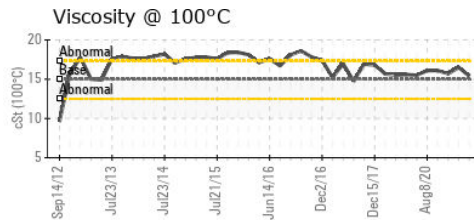
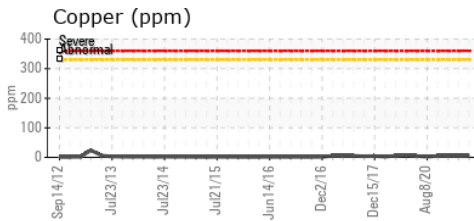
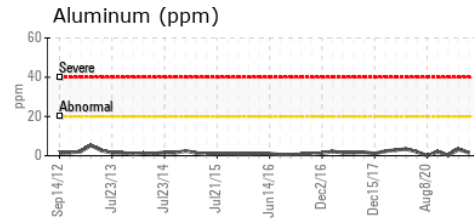
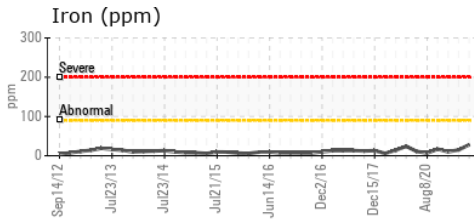


FLUID DEGRADATION	method	limit/base	current	history1	history2	
Oxidation	Abs./1mm	*ASTM D7414	>25	23.3	22.2	18
Acid Number (AN)	mg KOH/g	ASTM D8045	1.56	1.068	1.160	
Base Number (BN)	mg KOH/g	ASTM D2896	10	9.38	7.45	7.20

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	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D445	15	15.4	16.5	15.7

## GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
 Sample No. : WCM2313720  
 Lab Number : 05924476  
 Unique Number : 10604423  
 Test Package : MOB 2  
 Received : 14 Aug 2023  
 Tested : 15 Aug 2023  
 Diagnosed : 16 Aug 2023 - Jonathan Hester

TEMPLE LAND GRADING  
 2751 HWY 135  
 WINNSBORO, LA  
 US 71295  
 Contact: RANDY TEMPLE  
 ktemple19@gmail.com

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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F: