



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**015-0064 (S/N 236017)**  
 Component  
**Diesel Engine**  
 Fluid  
**SCHAEFFER SUPREME 7000 (5 GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor. ( Customer Sample Comment: Engine Oil Sample @ 10101 hours. )

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0868291</b>	WC0903950	WC0868436
Sample Date		Client Info		<b>24 May 2024</b>	27 Mar 2024	18 Dec 2023
Machine Age	hrs	Client Info		<b>10101</b>	9795	9503
Oil Age	hrs	Client Info		<b>9795</b>	0	0
Filter Age	hrs	Client Info		<b>9795</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>90	<b>5</b>	8	2
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	0
Nickel	ppm	ASTM D5185m	>2	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>4</b>	6	4
Lead	ppm	ASTM D5185m	>40	<b>&lt;1</b>	0	0
Copper	ppm	ASTM D5185m	>330	<b>&lt;1</b>	<1	0
Tin	ppm	ASTM D5185m	>15	<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

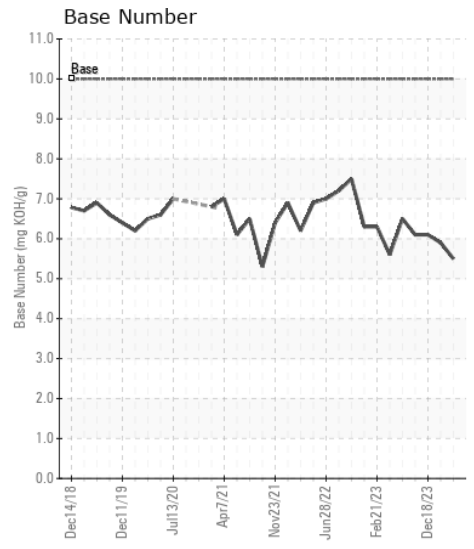
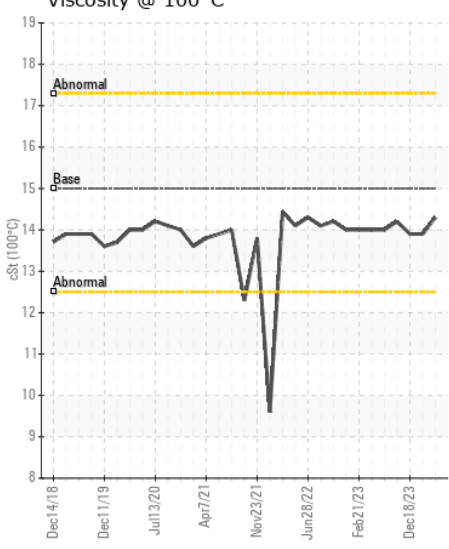
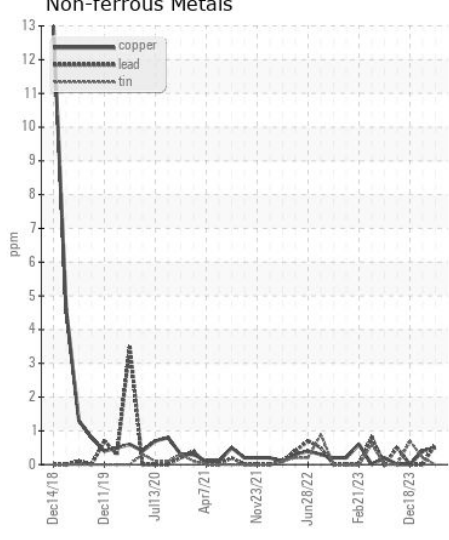
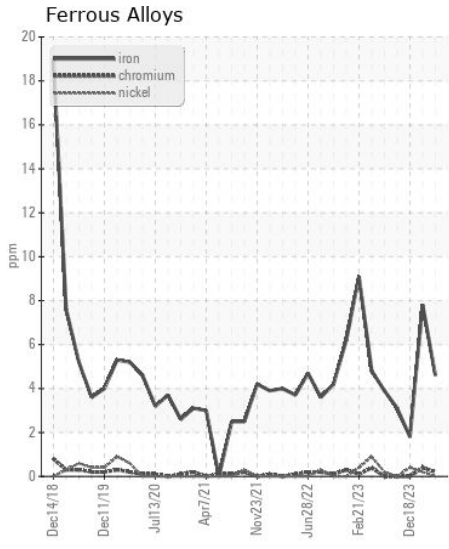
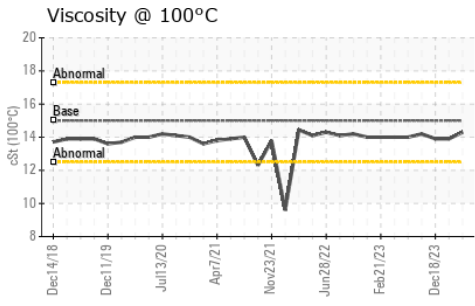
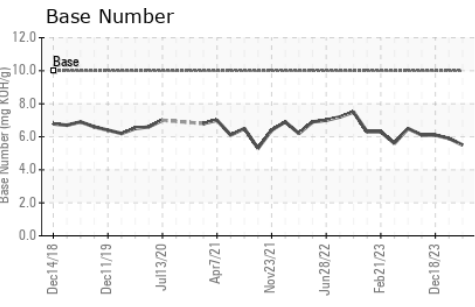
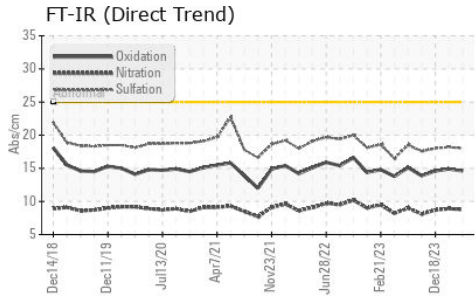
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>4</b>	8	3
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	2	<1
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
Soot %	%	*ASTM D7844	>6	<b>0.1</b>	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	<b>8.8</b>	8.9	8.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>18.0</b>	18.2	18.0
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	NEG

## FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>2</b>	3	<1
Boron	ppm	ASTM D5185m		<b>77</b>	131	89
Barium	ppm	ASTM D5185m		<b>0</b>	<1	0
Molybdenum	ppm	ASTM D5185m	50	<b>70</b>	98	69
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Magnesium	ppm	ASTM D5185m	1000	<b>10</b>	23	22
Calcium	ppm	ASTM D5185m	1400	<b>2177</b>	3019	2057
Phosphorus	ppm	ASTM D5185m	985	<b>976</b>	1515	1019
Zinc	ppm	ASTM D5185m	1060	<b>1145</b>	1617	1174
Sulfur	ppm	ASTM D5185m	4000	<b>5520</b>	7389	4864
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>14.6</b>	14.9	14.6
Base Number (BN)	mg KOH/g	ASTM D2896	10	<b>5.5</b>	5.9	6.1
Visc @ 100°C	cSt	ASTM D445	15	<b>14.3</b>	13.9	13.9



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0868291 **Received** : 30 May 2024  
**Lab Number** : 06196145 **Tested** : 31 May 2024  
**Unique Number** : 11058268 **Diagnosed** : 02 Jun 2024 - Don Baldrige  
**Test Package** : CONST ( Additional Tests: TBN )

**SHIMMICK CONSTRUCTION**  
 5535 TRAILHEAD DRIVE  
 CHATTANOOGA, TN  
 US 37415  
 Contact: DANIEL LISELLA  
 daniel.lisella@shimmick.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)