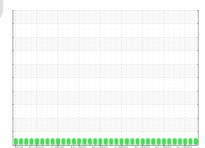


# **OIL ANALYSIS REPORT**

## **Sample Rating Trend**







# JLG 1255 016-0118 (S/N 0160086959)

Component

**Diesel Engine** 

SCHAEFFER SUPREME 7000 (--- GAL)

## DIAGNOSIS

## Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil

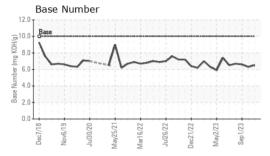
## **Fluid Condition**

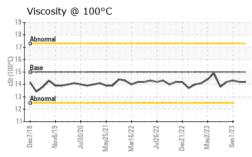
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

				rŽ022 JulZ022 DecŽ022 MayŽ02		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0868269	WC0815234	WC0815038
Sample Date		Client Info		27 Oct 2023	29 Sep 2023	01 Sep 2023
Machine Age	hrs	Client Info		11871	11556	11251
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	V	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	2	0	3
Chromium	ppm	ASTM D5185m	>20	<1	0	<1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	4	2	2
Lead	ppm	ASTM D5185m	>40	<1	0	0
Copper	ppm	ASTM D5185m	>330	0	0	<1
Tin	ppm	ASTM D5185m	>15	<1	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
ADDITIVES Boron	ppm	method ASTM D5185m	limit/base	current <b>74</b>	history1 67	history2 71
	ppm		limit/base			
Boron		ASTM D5185m	limit/base	74	67	71
Boron Barium	ppm	ASTM D5185m ASTM D5185m		74 0	67 0	71 0
Boron Barium Molybdenum	ppm	ASTM D5185m ASTM D5185m ASTM D5185m		74 0 72	67 0 71	71 0 72
Boron Barium Molybdenum Manganese	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	50	74 0 72 0	67 0 71	71 0 72 <1
Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	50	74 0 72 0 17	67 0 71 0 17	71 0 72 <1 20
Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	50 1000 1400 985	74 0 72 0 17 2245	67 0 71 0 17 2141	71 0 72 <1 20 2424
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	50 1000 1400 985 1060	74 0 72 0 17 2245 1103	67 0 71 0 17 2141 1042	71 0 72 <1 20 2424 1123
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	50 1000 1400 985 1060	74 0 72 0 17 2245 1103 1366	67 0 71 0 17 2141 1042 1276	71 0 72 <1 20 2424 1123 1399
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	50 1000 1400 985 1060 4000	74 0 72 0 17 2245 1103 1366 5492	67 0 71 0 17 2141 1042 1276 5161	71 0 72 <1 20 2424 1123 1399 6449
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	50 1000 1400 985 1060 4000 limit/base	74 0 72 0 17 2245 1103 1366 5492	67 0 71 0 17 2141 1042 1276 5161 history1	71 0 72 <1 20 2424 1123 1399 6449 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	50 1000 1400 985 1060 4000 limit/base	74 0 72 0 17 2245 1103 1366 5492 current	67 0 71 0 17 2141 1042 1276 5161 history1	71 0 72 <1 20 2424 1123 1399 6449 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	50 1000 1400 985 1060 4000 limit/base >25	74 0 72 0 17 2245 1103 1366 5492 current 4	67 0 71 0 17 2141 1042 1276 5161 history1	71 0 72 <1 20 2424 1123 1399 6449 history2 4
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	50 1000 1400 985 1060 4000 limit/base >25 >20	74 0 72 0 17 2245 1103 1366 5492 current 4 2 <1	67 0 71 0 17 2141 1042 1276 5161 history1 3 2	71 0 72 <1 20 2424 1123 1399 6449 history2 4
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	50  1000 1400 985 1060 4000 limit/base >25 >20 limit/base	74 0 72 0 17 2245 1103 1366 5492 current 4 2 <1	67 0 71 0 17 2141 1042 1276 5161 history1 3 2 0	71 0 72 <1 20 2424 1123 1399 6449 history2 4 1
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m  method  *ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m  method	50  1000 1400 985 1060 4000  limit/base >25  >20  limit/base	74 0 72 0 17 2245 1103 1366 5492 current 4 2 <1 current 0.1	67 0 71 0 17 2141 1042 1276 5161 history1 3 2 0 history1 0.1	71 0 72 <1 20 2424 1123 1399 6449 history2 4 1 history2 0.1
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m  method  *ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	50  1000 1400 985 1060 4000 limit/base >25 >20 limit/base >6 >20	74 0 72 0 17 2245 1103 1366 5492 current 4 2 <1 current 0.1 8.3	67 0 71 0 17 2141 1042 1276 5161 history1 3 2 0 history1 0.1 8.3	71 0 72 <1 20 2424 1123 1399 6449 history2 4 1 history2 0.1 8.7
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m  method  *ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m  *ASTM D5185m  *ASTM D7844  *ASTM D7624  *ASTM D76145	50  1000 1400 985 1060 4000 limit/base >25 >20 limit/base >6 >20 >30	74 0 72 0 17 2245 1103 1366 5492 current 4 2 <1 current 0.1 8.3 18.1	67 0 71 0 17 2141 1042 1276 5161 history1 3 2 0 history1 0.1 8.3 18.0	71 0 72 <1 20 2424 1123 1399 6449 history2 4 1 history2 0.1 8.7 18.6



## **OIL ANALYSIS REPORT**

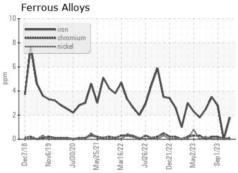


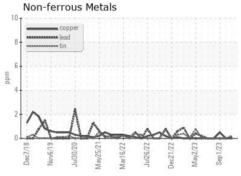


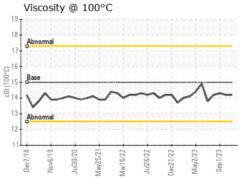
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

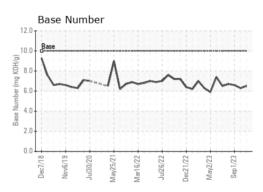
FLUID PROPERTIES		method	ilmii/base		nistory i	nistoryz
Visc @ 100°C	cSt	ASTM D445	15	14.2	14.2	14.3

## **GRAPHS**













Laboratory Sample No. Lab Number

: WC0868269 : 05999598 Unique Number : 10727958

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 06 Nov 2023 Diagnosed : 07 Nov 2023

Diagnostician : Wes Davis

Test Package : CONST ( Additional Tests: TBN )

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. SHIMMICK CONSTRUCTION

5535 TRAILHEAD DRIVE CHATTANOOGA, TN US 37415

Contact: DANIEL LISELLA daniel.lisella@shimmick.com

T:

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F:

Contact/Location: DANIEL LISELLA - AECCHATN