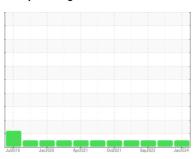


# **OIL ANALYSIS REPORT**

Sample Rating Trend







Machine Id **021-0112** 

Component **Diesel Engine** 

SCHAEFFER SUPREME 7000 (--- GAL)

#### DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

#### Wear

All component wear rates are normal.

## Contamination

There is no indication of any contamination in the oil.

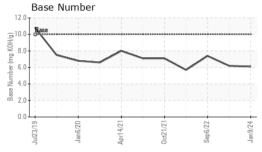
### **Fluid Condition**

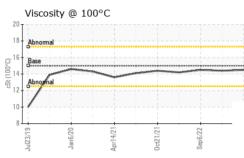
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

		Jul2019	Jan2020 Apr2021	Oct2021 Sep2022	Jan 2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0868385	WC0750736	WC0698112
Sample Date		Client Info		09 Jan 2024	02 Feb 2023	06 Sep 2022
Machine Age	hrs	Client Info		2266	2148	1921
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	١	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	10	14	10
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	<1	0	<1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m		6	6	4
Lead	ppm	ASTM D5185m	>40	0	0	<1
Copper	ppm	ASTM D5185m		0	<1	<1
Tin	ppm	ASTM D5185m	>15	<1 <1	0	1 0
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m				
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		84	77	84
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m	50	78	80	74
Manganese	ppm	ASTM D5185m	1000	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1000	25	12	15
Calcium	ppm	ASTM D5185m	1400	2160	2263	2071
Phosphorus Zinc	ppm	ASTM D5185m ASTM D5185m	985 1060	1036 1236	1004 1201	909 1131
Sulfur	ppm	ASTM D5185m	4000	4809	4732	4405
CONTAMINANTS	• •	method	limit/base	current	history1	history2
Silicon		ASTM D5185m		16	17	14
Sodium	ppm	ASTM D5185m	<i>&gt;</i> 20	2	17	2
Potassium	ppm	ASTM D5185m	>20	1	2	0
INFRA-RED	1-1-	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.3	0.3
Nitration	Abs/cm	*ASTM D7624	>20	9.5	10.1	10.5
Sulfation	Abs/.1mm	*ASTM D7024		19.4	19.6	20.5
FLUID DEGRADA		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.8	16.1	16.8
Base Number (BN)	mg KOH/g	ASTM D2896	10	6.1	6.2	7.4



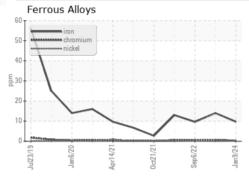
## **OIL ANALYSIS REPORT**

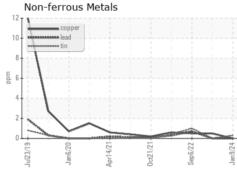


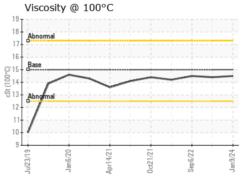


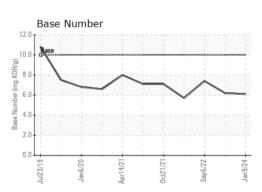
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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 PROPER	RTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15	14.5	14.4	14.5













Laboratory Sample No.

Lab Number

Unique Number : 10850271

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0868385 : 06073594

Recieved Diagnosed

: 30 Jan 2024 : 30 Jan 2024 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.

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

SHIMMICK CONSTRUCTION

5535 TRAILHEAD DRIVE CHATTANOOGA, TN US 37415

Contact: DANIEL LISELLA daniel.lisella@shimmick.com

T:

F: