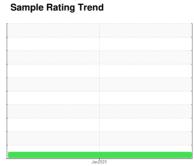


# **OIL ANALYSIS REPORT**



# **MINING ME-114 CATERPILLAR 420E E1H03078** Diesel Engine SCHAEFFER SUPREME 7000 (--- GAL)





### Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the

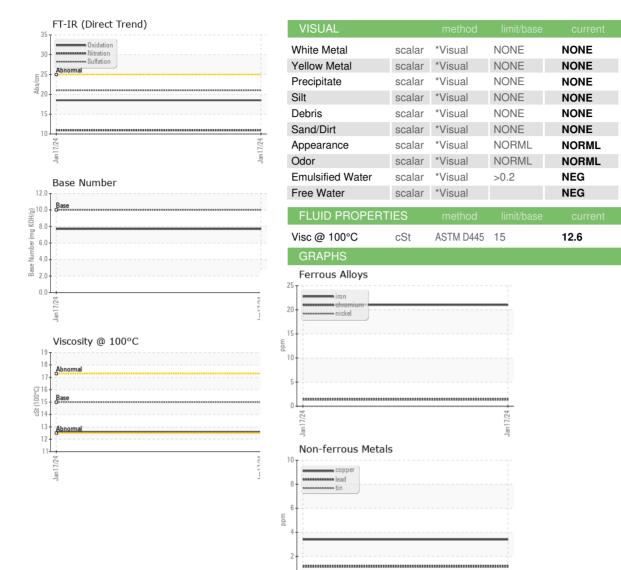
### **Fluid Condition**

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

E 7000 ( GAL	-)			Jan 2024		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0920469		
Sample Date		Client Info		17 Jan 2024		
Machine Age	hrs	Client Info		3453		
Oil Age	hrs	Client Info		500		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINATIO	N	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
Nater		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>100	21		
Chromium	ppm	ASTM D5185m	>20	2		
Nickel	ppm	ASTM D5185m	>2	1		
Titanium	ppm	ASTM D5185m	>2	<1		
Silver	ppm	ASTM D5185m	>2	<1		
Aluminum	ppm	ASTM D5185m	>25	4		
_ead	ppm	ASTM D5185m	>40	1		
Copper	ppm	ASTM D5185m	>330	3		
Γin	ppm	ASTM D5185m	>15	1		
/anadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		<1		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		51		
Barium	ppm	ASTM D5185m		<1		
Molybdenum	ppm	ASTM D5185m	50	53		
Manganese	ppm	ASTM D5185m		1		
Magnesium	ppm	ASTM D5185m	1000	330		
Calcium	ppm	ASTM D5185m	1400	1842		
Phosphorus	ppm	ASTM D5185m	985	933		
Zinc	ppm	ASTM D5185m	1060	1140		
Sulfur	ppm	ASTM D5185m	4000	3913		
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	11		
Sodium	ppm	ASTM D5185m		<1		
Potassium	ppm	ASTM D5185m	>20	2		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1.1		
Vitration	Abs/cm	*ASTM D7624	>20	10.9		
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.0		
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.5		
Base Number (BN)	mg KOH/g	ASTM D2896	10	7.7		



## **OIL ANALYSIS REPORT**







Certificate 12367

Laboratory

Sample No. Lab Number : 06160220 Unique Number : 10995643

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0920469

Jan17/24

₹ 14

Viscosity @ 100°C

Received **Tested** 

Diagnosed : 26 Apr 2024 - 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)

**COVIA - JUNCTION CITY - 095** 

1333 SANDPIT ROAD MAUK, GA

US 31058 Contact: Phil Ivanisin phil.ivanisin@coviacorp.com T: (478)244-7020

Base Number

(mg K0H/g

0.0

: 25 Apr 2024

: 26 Apr 2024