

# **OIL ANALYSIS REPORT**

# CHAD STEELE 19-064S13-1 - 180

NOT GIVEN (--- QTS)



Sample Rating Trend



# DIAGNOSIS

### Recommendation

We recommend an early resample to monitor this condition. We were unable to perform a particle count due to insufficient sample.

The copper level is severe.

### Contamination

There is no indication of any contamination in the

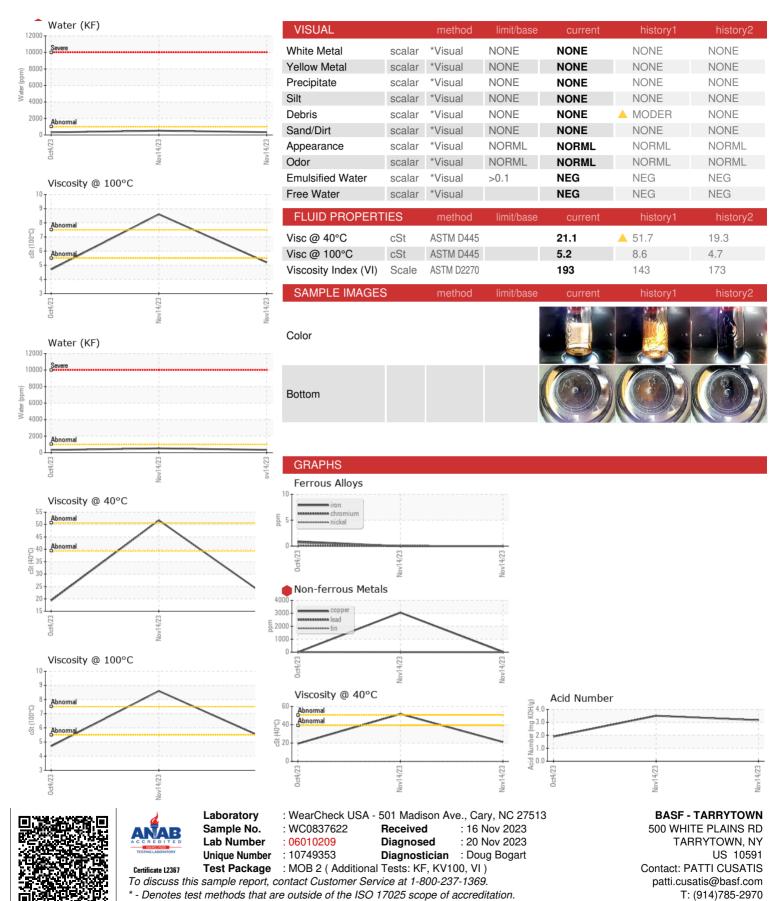
#### **Fluid Condition**

The condition of the oil is acceptable for the time in service.

		Od	2023	Nov2023 Nov20	123	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0837622	WC0837623	WC0837691
Sample Date		Client Info		14 Nov 2023	14 Nov 2023	04 Oct 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	ABNORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	0	0	<1
Chromium	ppm	ASTM D5185m	>10	0	0	<1
Nickel	ppm	ASTM D5185m	>10	<1	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	0	0	1
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>75	<b>3051</b>	11	<1
Tin	ppm	ASTM D5185m	>10	<1	<1	0
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		56	0	69
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		2	0	2
Calcium	ppm	ASTM D5185m		386	<u>^</u> 2	351
Phosphorus	ppm	ASTM D5185m		368	<b>A</b> 3	309
Zinc	ppm	ASTM D5185m		0	0	<1
Sulfur	ppm	ASTM D5185m		701	<b>▲</b> 14	843
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	10	<1	3
Sodium	ppm	ASTM D5185m		<1	0	4
Potassium	ppm	ASTM D5185m	>20	0	0	<1
Water	%	ASTM D6304	>0.1	0.034	0.051	0.032
ppm Water	ppm	ASTM D6304	>1000	342.0	518.3	322.1
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000			3121
Particles >6µm		ASTM D7647	>1300			468
Particles >14μm		ASTM D7647	>160			69
Particles >21µm		ASTM D7647	>40			23
Particles >38μm		ASTM D7647	>10			3
Particles >71μm		ASTM D7647	>3			1
Oil Cleanliness		ISO 4406 (c)	>19/17/14			19/16/13
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		3.167	3.506	1.90



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

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