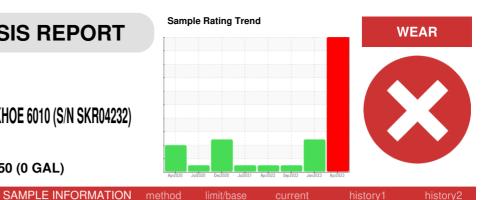


OIL ANALYSIS REPORT



CATERPILLAR 420 FST BACKHOE 6010 (S/N SKR04232) Component Front Left Planetary TULCO LUBSOIL TO-4 50 (0 GAL)



Recommendation

We advise that you check all areas where dirt can enter the system. We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

🛡 Wear

Bearing and/or gear wear is indicated.

Contamination

Appearance is milky. Elemental levels of silicon (Si) and aluminum (AI) indicate alumina-silicate (coarse dirt) ingress. There is a high concentration of water present in the oil.

Fluid Condition

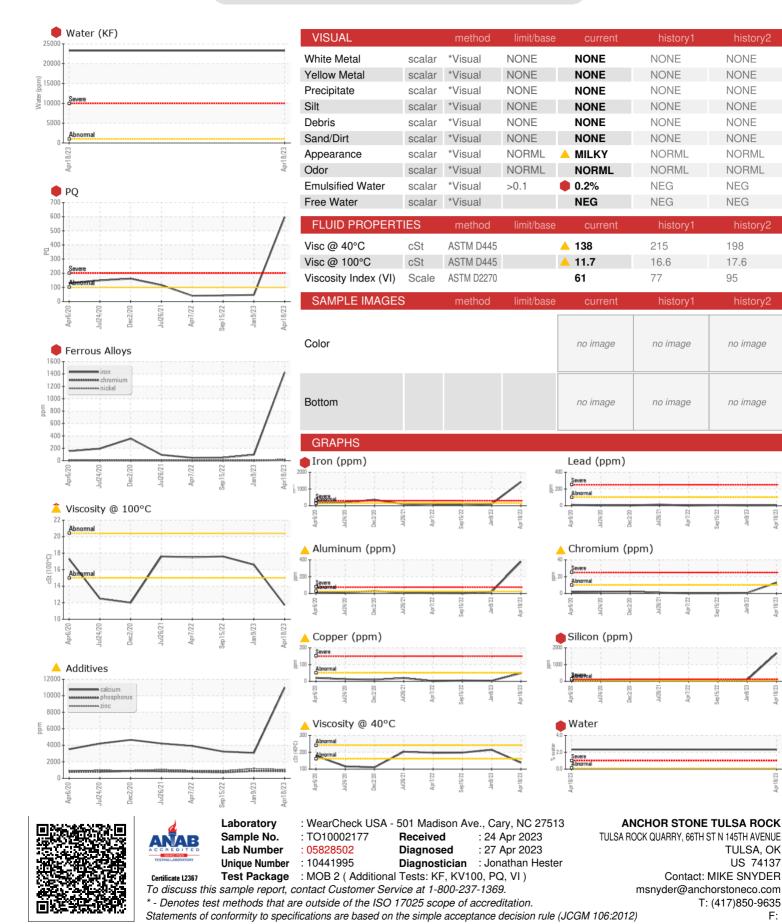
The oil viscosity is lower than normal. Additive levels indicate the addition of a different brand, or type of oil. Confirm oil type. The AN level is acceptable for this fluid. The oil is no longer serviceable due to the presence of contaminants.

		mounou		Garronit	motory	motory
Sample Number		Client Info		TO10002177	TO10001549	TO10001384
Sample Date		Client Info		18 Apr 2023	09 Jan 2023	15 Sep 2022
Machine Age	hrs	Client Info		11802	11286	10795
Oil Age	hrs	Client Info		516	150	1120
Oil Changed		Client Info		Not Changd	Changed	Changed
Sample Status				SEVERE	ABNORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		9 7	47	43
Iron	ppm	ASTM D5185m	>150	🛑 1426	96	49
Chromium	ppm	ASTM D5185m	>10	<u> </u>	<1	<1
Nickel	ppm	ASTM D5185m	>10	4	0	0
Titanium	ppm	ASTM D5185m		25	1	<1
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>25	A 378	<u> </u>	4
Lead	ppm	ASTM D5185m	>100	5	3	8
Copper	ppm	ASTM D5185m	>50	48	4	5
Tin	ppm	ASTM D5185m	>10	<u> </u>	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		15	0	4
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	0	<1
Manganese	ppm	ASTM D5185m		14	1	1
Magnesium	ppm	ASTM D5185m		A 363	18	17
Calcium	ppm	ASTM D5185m		<u> </u>	3081	3240
Phosphorus	ppm	ASTM D5185m		847	883	701
Zinc	ppm	ASTM D5185m		1055	1171	900

Sulfur	ppm	ASTM D5185m		4655	5062	6120
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	e 1675	9 1	39
Sodium	ppm	ASTM D5185m		39	4	3
Potassium	ppm	ASTM D5185m	>20	142	8	<1
Water	%	ASTM D6304	>0.1	e 2.33		
ppm Water	ppm	ASTM D6304	>1000	e 23300		
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		1.10	1.20	0.93



OIL ANALYSIS REPORT



Submitted By: SKIP SAENGERHAUSEN

F:

TULSA, OK US 74137

T: (417)850-9635

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

198

17.6

no image

no image

95