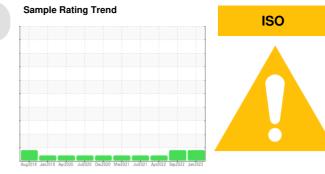


OIL ANALYSIS REPORT





CATERPILLAR 420 FST BACKHOE 6010 (S/N SKR04232) Component **Hydraulic System**

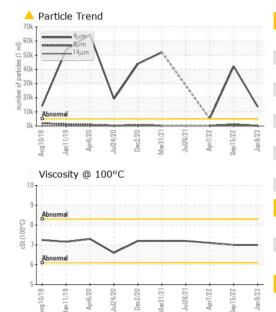
TULCO LUBSOIL SUPER HYDRAULIC HZ 46 (--- GAL)

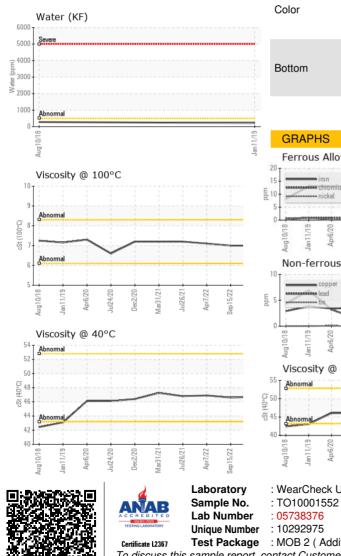
DIAGNOSIS	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		TO10001552	TO60000239	TO10000906
lo corrective action is recommended at this time.	Sample Date		Client Info		09 Jan 2023	15 Sep 2022	07 Apr 2022
Resample at the next service interval to monitor.	Machine Age	hrs	Client Info		11286	10795	10207
Vear	Oil Age	hrs	Client Info		1611	1120	1048
Il component wear rates are normal.	Oil Changed		Client Info		N/A	Not Changd	Not Changd
Contamination	Sample Status				ABNORMAL	ABNORMAL	ATTENTION
here is a high amount of silt (particulates < 6 hicrons in size) present in the oil.	WEAR METALS		method	limit/base		history1	history2
luid Condition	Iron	ppm	ASTM D5185m	>20	4	4	5
he AN level is acceptable for this fluid. The	Chromium	ppm	ASTM D5185m	>20	<1	0	<1
ondition of the oil is suitable for further service.	Nickel	ppm	ASTM D5185m	>20	0	0	0
	Titanium	ppm	ASTM D5185m		0	0	<1
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>20	1	1	3
	Lead	ppm	ASTM D5185m		0	<1	1
	Copper	ppm	ASTM D5185m		<1	1	1
	Tin	ppm	ASTM D5185m		0	0	<1
	Antimony	ppm	ASTM D5185m	>20			
	Vanadium						0
		ppm	ASTM D5185m		0	0	
	Cadmium	ppm	ASTM D5185m		0	0	0
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m		0	0	<1
	Barium	ppm	ASTM D5185m		0	2	0
	Molybdenum	ppm	ASTM D5185m		<1	0	<1
	Manganese	ppm	ASTM D5185m		0	<1	<1
	Magnesium	ppm	ASTM D5185m		85	83	163
	Calcium	ppm	ASTM D5185m		127	130	220
	Phosphorus	ppm	ASTM D5185m		920	1026	789
	Zinc	ppm	ASTM D5185m		1148	1298	995
	Sulfur	ppm	ASTM D5185m		3958	4036	2838
	CONTAMINANTS	S	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>15	4	4	5
	Sodium	ppm	ASTM D5185m		2	<1	2
	Potassium	ppm	ASTM D5185m	>20	0	2	<1
	Water	%	ASTM D6304	>0.05	NEG	NEG	NEG
	FLUID CLEANLI	NESS	method	limit/base	current	history1	history2
	Particles >4µm		ASTM D7647	>5000	<u> </u>	42111	6 5170
	Particles >6µm		ASTM D7647	>1300	149	1078	189
	Particles >14µm		ASTM D7647	>160	5	8	23
	Particles >21µm		ASTM D7647	>40	2	2	3
	Particles >38µm		ASTM D7647	>10	1	0	0
	Particles >71µm		ASTM D7647	>3	0	0	0
	Oil Cleanliness		ISO 4406 (c)	>19/17/14	A 21/14/10	🔺 23/17/10	🔺 20/15/12
	Oil Cleanliness	ATION	ISO 4406 (c) method	>19/17/14 limit/base		history1	history2



an1

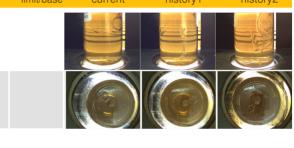
OIL ANALYSIS REPORT

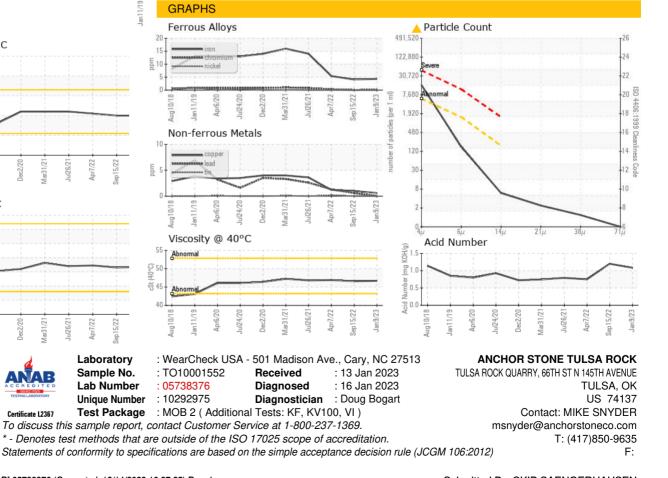




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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	TIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		46.7	46.6	46.9
Visc @ 100°C	cSt	ASTM D445		7	7	7.1
Viscosity Index (VI)	Scale	ASTM D2270		106	107	109
SAMPLE IMAGES	S	method	limit/base	current	history1	history2
Color						





Submitted By: SKIP SAENGERHAUSEN