

## **OIL ANALYSIS REPORT**

Sample Rating Trend

## VISCOSITY

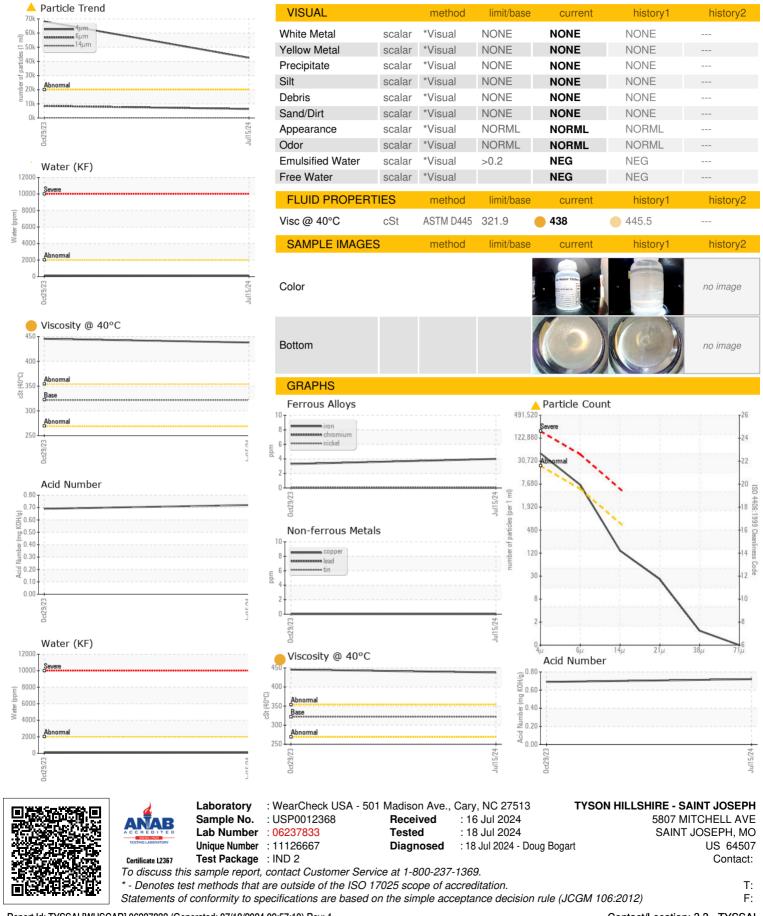
## Machine Id QX WATER CHILLER (NORTH PLANT) Gearbox

Fluid JAX SYNGEAR INDUSTRIAL GEAR ISO 320 (--- GAL)

DIAGNOSIS	SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		USP0012368	USP0002891	
Resample at the next service interval to monitor.	Sample Date		Client Info		15 Jul 2024	29 Oct 2023	
Wear	Machine Age	hrs	Client Info		0	0	
All component wear rates are normal.	Oil Age	hrs	Client Info		0	0	
Contamination	Oil Changed		Client Info		N/A	N/A	
There is a high amount of silt (particulates < 14	Sample Status				ABNORMAL	ABNORMAL	
microns in size) present in the oil.	WEAR METALS		method	limit/base	current	history1	history2
Fluid Condition The oil viscosity is higher than normal. Confirmed. The AN level is acceptable for this fluid.	Iron	ppm	ASTM D5185m		4	3	
	Chromium		ASTM D5185m		0	0	
	Nickel	ppm	ASTM D5185m		0	0	
	Titanium	ppm	ASTM D5185m	>15	0	<1	
	Silver	ppm	ASTM D5185m		0	0	
		ppm		. 25		1	
	Aluminum	ppm	ASTM D5185m		<1		
	Lead	ppm	ASTM D5185m		0	0	
	Copper	ppm	ASTM D5185m		0	0	
	Tin	ppm	ASTM D5185m	>25	0	0	
	Vanadium	ppm	ASTM D5185m		0	0	
	Cadmium	ppm	ASTM D5185m		0	<1	
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m		0	11	
	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m		0	0	
	Manganese	ppm	ASTM D5185m		0	0	
	Magnesium	ppm	ASTM D5185m		2	<1	
	Calcium	ppm	ASTM D5185m		276	234	
	Phosphorus	ppm	ASTM D5185m		796	670	
	Zinc	ppm	ASTM D5185m		0	0	
	Sulfur	ppm	ASTM D5185m		579	597	
	CONTAMINANTS	6	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>50	5	4	
	Sodium	ppm	ASTM D5185m		2	<1	
	Potassium	ppm	ASTM D5185m	>20	0	1	
	Water	%	ASTM D6304	>0.2	0.009	0.013	
	ppm Water	ppm	ASTM D6304		91	131.4	
	FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
	Particles >4µm		ASTM D7647	>20000	<b>42457</b>	▲ 68210	
	Particles >6µm		ASTM D7647	>5000	6395	8533	
	Particles >14µm		ASTM D7647		123	146	
	Particles >21µm		ASTM D7647	>160	22	29	
	Particles >38µm		ASTM D7647		1	2	
	Particles >71µm		ASTM D7647	>10	0	1	
	Oil Cleanliness		ISO 4406 (c)		<b>A</b> 23/20/14	▲ 23/20/14	
	FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.72	0.69	
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