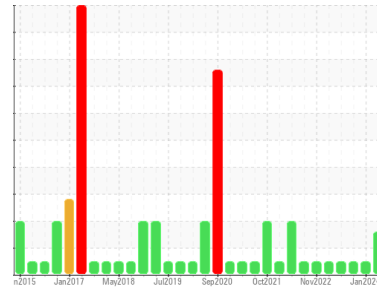




OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id
TYSROGCNQ LINE 5 (S/N XA 0686)
 Component
Hydraulic System
 Fluid
HOUGHTON HOUGHTON SAFE 419 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a moderate amount of particulates present in the oil.

Fluid Condition

The pH level of this fluid is within the acceptable limits at 7.0. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		USP0011444	USP0005387	USP0003202
Sample Date	Client Info		07 May 2024	24 Jan 2024	15 Oct 2023
Machine Age	mths	Client Info	0	0	0
Oil Age	mths	Client Info	0	0	0
Oil Changed	Client Info		N/A	N/A	N/A
Sample Status			ATTENTION	NORMAL	NORMAL

WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184		65	---	---
Iron	ppm	ASTM D5185m >20	<1	0	0
Chromium	ppm	ASTM D5185m >20	<1	0	0
Nickel	ppm	ASTM D5185m >20	<1	<1	0
Titanium	ppm	ASTM D5185m	<1	0	<1
Silver	ppm	ASTM D5185m	<1	0	0
Aluminum	ppm	ASTM D5185m >20	0	<1	<1
Lead	ppm	ASTM D5185m >20	0	1	0
Copper	ppm	ASTM D5185m >20	<1	0	<1
Tin	ppm	ASTM D5185m >20	<1	<1	0
Vanadium	ppm	ASTM D5185m	<1	0	<1
Cadmium	ppm	ASTM D5185m	<1	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	2	0
Barium	ppm	ASTM D5185m	<1	0	0
Molybdenum	ppm	ASTM D5185m	<1	0	0
Manganese	ppm	ASTM D5185m	0	<1	0
Magnesium	ppm	ASTM D5185m	2	2	0
Calcium	ppm	ASTM D5185m	2	1	0
Phosphorus	ppm	ASTM D5185m	2	2	0
Zinc	ppm	ASTM D5185m	<1	0	0
Sulfur	ppm	ASTM D5185m	0	5	0

CONTAMINANTS

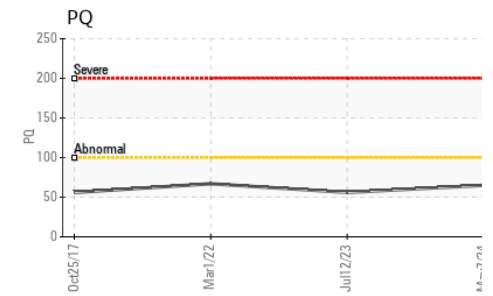
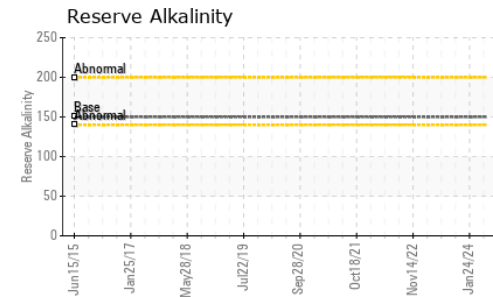
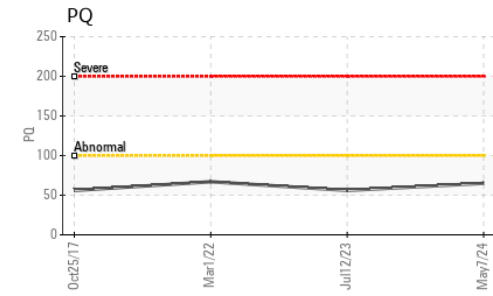
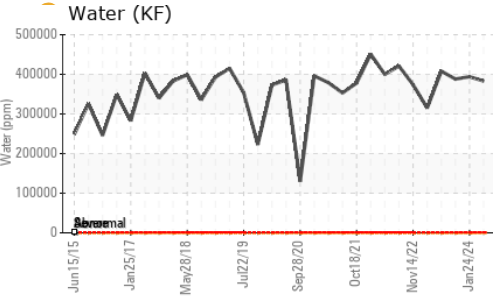
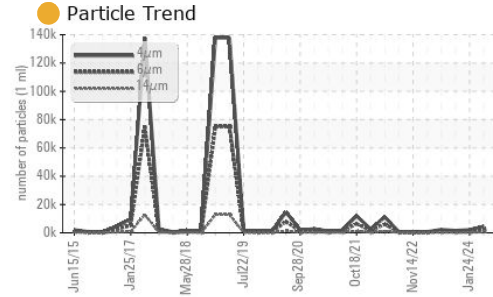
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	1	<1	0
Sodium	ppm	ASTM D5185m	16	<1	0
Potassium	ppm	ASTM D5185m >20	124	4	6
Water	%	ASTM D6304 >44	38.3	39.4	38.8
ppm Water	ppm	ASTM D6304	383000	394000	388000

FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		4541	2131	1592
Particles >6µm	ASTM D7647	>2500	2474	1161	867
Particles >14µm	ASTM D7647	>320	421	198	148
Particles >21µm	ASTM D7647	>80	142	67	50
Particles >38µm	ASTM D7647	>20	22	10	8
Particles >71µm	ASTM D7647	>4	2	1	1
Oil Cleanliness	ISO 4406 (c)	>--/18/15	19/18/16	18/17/15	18/17/14



OIL ANALYSIS REPORT

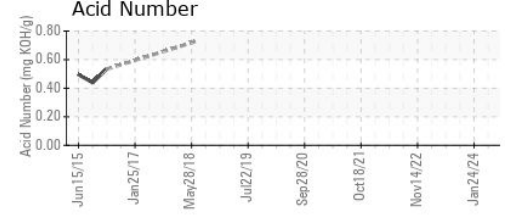
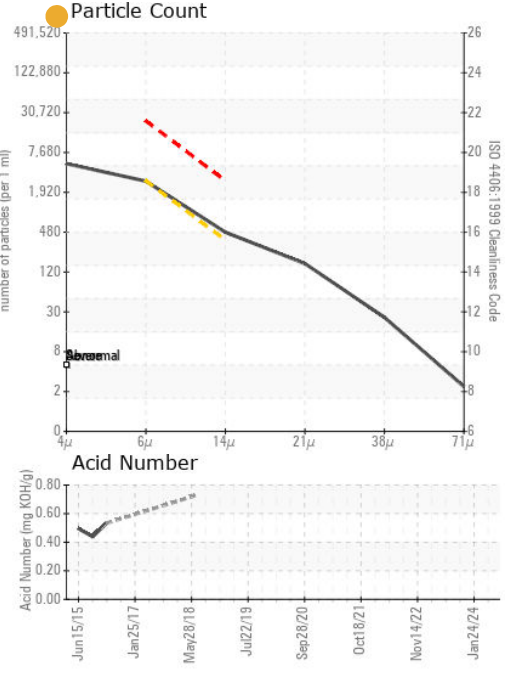
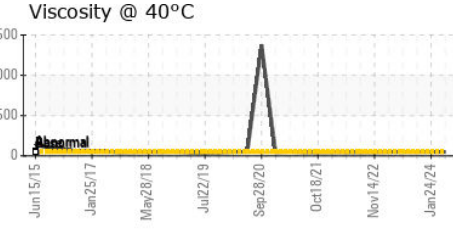
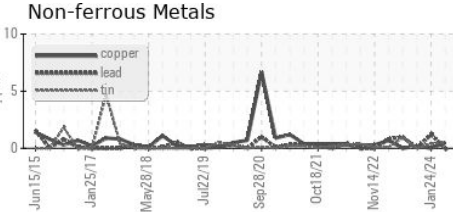
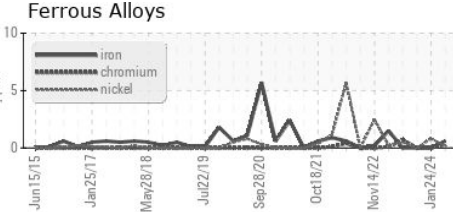


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>44	0.2%	0.2%
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
pH	Scale 0-14	ASTM D1287	7.00	7.00	7.00
Visc @ 40°C	cSt	ASTM D445	43.0	50.0	48.5

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : USP0011444 **Received** : 14 May 2024
Lab Number : 06178810 **Tested** : 21 May 2024
Unique Number : 11030136 **Diagnosed** : 21 May 2024 - Doug Bogart
Test Package : IND 2 (Additional Tests: pH, PQ, ReserveAlk)

TYSON CNQ -ROGERS-USP
 ROGERS, AR
 US
 Contact: SERVICE MANAGER

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)