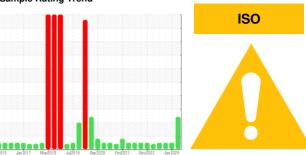


# **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id

# TYSROGCNQ PACKOUT (S/N XA 0686)

Hydraulic System

**HOUGHTON HOUGHTON SAFE 419 (--- GAL)** 

## DIAGNOSIS

### Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

### Contamination

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

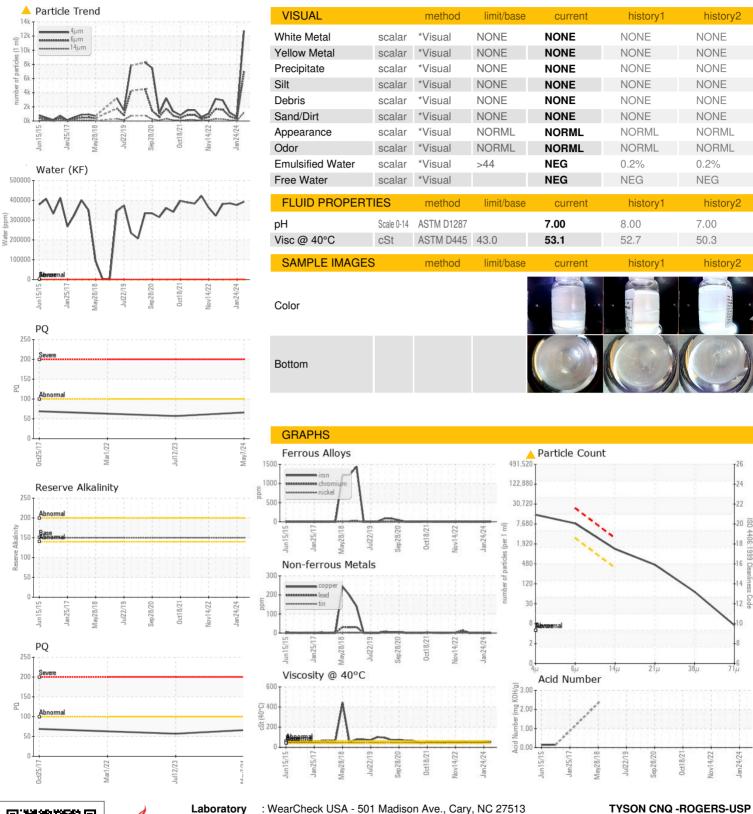
#### Fluid Condition

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

m2015 Jan2017 May2018 Jul2019 Sep2020 Oct2021 Nov2022 Jan2024						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0011446	USP0005383	USP0003203
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				ABNORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		66		
Iron	ppm	ASTM D5185m	>20	8	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		0	0	0
Aluminum	ppm	ASTM D5185m	>20	1	<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		2	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		32	0	2
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m		<1	2	0
Calcium	ppm	ASTM D5185m		6	1	0
Phosphorus	ppm	ASTM D5185m		10	6	0
Zinc	ppm	ASTM D5185m		0	0	0
Sulfur	ppm	ASTM D5185m		0	40	0
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	2	<1	0
Sodium	ppm	ASTM D5185m		35	<1	0
Potassium	ppm	ASTM D5185m	>20	344	4	6
Water	%	ASTM D6304	>44	39.3	37.6	38.5
ppm Water	ppm	ASTM D6304		393000	376000	385000
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		12736	574	1166
Particles >6µm		ASTM D7647	>2500	<u></u> 6938	313	635
Particles >14μm		ASTM D7647	>320	<u> </u>	53	108
Particles >21µm		ASTM D7647	>80	<u>▲</u> 398	18	36
Particles >38µm		ASTM D7647	>20	4 - 2 -	0	6
i articles >σομπ		A3 11VI D7 047	>20	<u></u> 61	3	O
Particles >71μm		ASTM D7647		▲ 61 ▲ 6	0	1



### OIL ANALYSIS REPORT







Certificate 12367

Sample No.

Lab Number : 06178808

: USP0011446

**Tested** : 21 May 2024 Unique Number : 11030134 Diagnosed : 21 May 2024 - Doug Bogart

Received

: 14 May 2024

Test Package : IND 2 ( Additional Tests: pH, PQ, ReserveAlk ) 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)

Contact/Location: SERVICE MANAGER - TYSROGCNQ

Page 2 of 2

ROGERS, AR

Contact: SERVICE MANAGER

LIS

T:

F: