

OIL ANALYSIS REPORT

Sample Rating Trend

WEAR

Machine Id

TYSROGCNQ LINE 2

Component Hydraulic System

HOUGHTON HOUGHTON SAFE 419 (--- GAL)

DIAGNOSIS

A Recommendation

We recommend an early resample to monitor this condition.

🔺 Wear

Iron ppm levels are abnormal.

Contamination

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

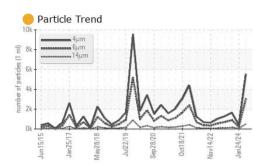
Fluid Condition

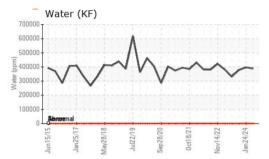
The pH level of this fluid is within the acceptable limits at 7.0. The condition of the oil is acceptable for service.

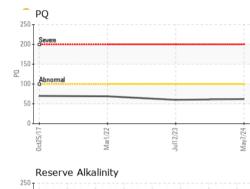
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0011447	USP0005385	USP0003205
Sample Date		Client Info		07 May 2024	24 Jan 2024	15 Oct 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		62		
Iron	ppm	ASTM D5185m	>20	<u> </u>	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		1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		78	2	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		13	- 1	0
Phosphorus	ppm	ASTM D5185m		25	2	0
Zinc	ppm	ASTM D5185m		12	0	0
Sulfur	ppm	ASTM D5185m		33	9	0
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m		3	<1	0
Sodium	ppm	ASTM D5185m		30	<1	0
	pp					
Potassillim	nnm	ASTM D5185m	>20	447	4	6
Potassium Water	ppm %	ASTM D5185m		447 38.8	4	6 37 8
Water	%	ASTM D5185m ASTM D6304 ASTM D6304		38.8	4 39.6 396000	6 37.8 378000
Water ppm Water	% ppm	ASTM D6304 ASTM D6304	>44	38.8 388000	39.6 396000	37.8 378000
Water ppm Water FLUID CLEANLIN	% ppm	ASTM D6304 ASTM D6304 method		38.8 388000 current	39.6 396000 history1	37.8 378000 history2
Water ppm Water FLUID CLEANLIN Particles >4µm	% ppm	ASTM D6304 ASTM D6304 method ASTM D7647	>44 limit/base	38.8 388000 current 5533	39.6 396000 history1 391	37.8 378000 history2 1635
Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm	% ppm	ASTM D6304 ASTM D6304 method ASTM D7647 ASTM D7647	>44 limit/base >2500	38.8 388000 current 5533 3014	39.6 396000 history1 391 213	37.8 378000 history2 1635 891
Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm	% ppm	ASTM D6304 ASTM D6304 Method ASTM D7647 ASTM D7647 ASTM D7647	>44 limit/base >2500 >320	38.8 388000 current 5533 3014 513	39.6 396000 history1 391 213 36	37.8 378000 history2 1635 891 152
Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm	% ppm	ASTM D6304 ASTM D6304 Method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>44 limit/base >2500 >320 >80	38.8 388000 current 5533 3014 513 173	39.6 396000 history1 391 213 36 12	37.8 378000 history2 1635 891 152 51
Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm	% ppm	ASTM D6304 ASTM D6304 Method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>44 limit/base >2500 >320 >80 >20	38.8 388000 current 5533 3014 513 173 27	39.6 396000 history1 391 213 36 12 2	37.8 378000 history2 1635 891 152 51 8
Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm	% ppm	ASTM D6304 ASTM D6304 Method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>44 limit/base >2500 >320 >80 >20	38.8 388000 current 5533 3014 513 173	39.6 396000 history1 391 213 36 12	37.8 378000 history2 1635 891 152 51

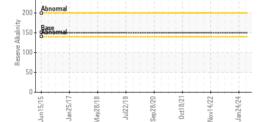


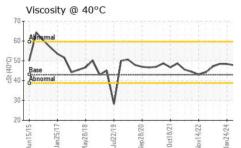
OIL ANALYSIS REPORT







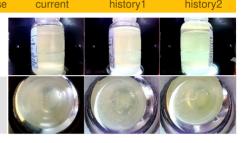




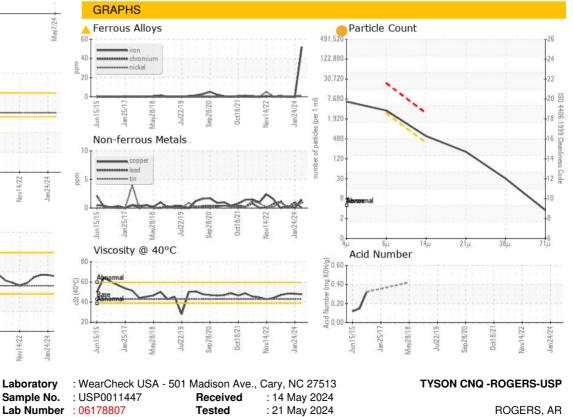


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>44	0.2%	0.2%	0.2%
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERTIES		method	limit/base	current	history1	history2
рН	Scale 0-14	ASTM D1287		7.00	8.00	7.00
Visc @ 40°C	cSt	ASTM D445	43.0	47.8	48.4	48.5
SAMPLE IMAGES	5	method	limit/base	current	history1	history2

Color



Bottom



Diagnosed : 21 May 2024 - Doug Bogart Test Package : IND 2 (Additional Tests: pH, PQ, ReserveAlk)

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)

Report Id: TYSROGCNQ [WUSCAR] 06178807 (Generated: 05/21/2024 17:05:05) Rev: 2

Laboratory

Sample No.

Unique Number : 11030133

Contact/Location: SERVICE MANAGER - TYSROGCNQ

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