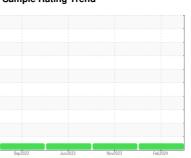


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



MCLAUGHLIN TANK 4

Component

Quench Oil

TUXTON TECT QUENCH 5209 (4000 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the quenching fluid.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the quenching fluid is suitable for further service.

		Sep2021	2 Jun2023	Nov2023	Feb2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0860302	WC0788790	WC0788799
Sample Date		Client Info		15 Feb 2024	17 Nov 2023	20 Jun 2023
Machine Age	hrs	Client Info		0	0	14000
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m		24	24	24
Chromium	ppm	ASTM D5185m		0	0	0
Nickel	ppm	ASTM D5185m		0	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m		0	<1	2
Lead	ppm	ASTM D5185m		0	0	0
Copper	ppm	ASTM D5185m		0	<1	0
Tin	ppm	ASTM D5185m		0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<1	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		<1	2	4
Calcium	ppm	ASTM D5185m		4	6	4
Phosphorus	ppm	ASTM D5185m		<1	1	<1
Zinc	ppm	ASTM D5185m		0	0	<1
Sulfur	ppm	ASTM D5185m		266	238	258
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m		1	2	1
Sodium	ppm	ASTM D5185m		8	10	1
Potassium	ppm	ASTM D5185m	>20	<1	1	2
Water	%	ASTM D6304		0.002	0.010	
ppm Water	ppm	ASTM D6304		17	104	
FLUID DEGRADA		method	limit/base		history1	history2

Acid Number (AN)

mg KOH/g ASTM D8045

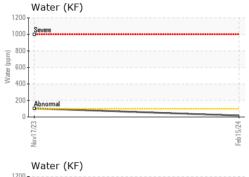
0.42

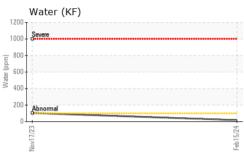
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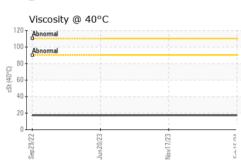
0.267



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	LIGHT	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		NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

FLUID PROPE	RTIES	method			history2
Visc @ 40°C	cSt	ASTM D445	17.37	17.47	17.3

0 4 4 4	ם ב	INAAOE	
SAIVI	PLE.	IMAGES	>





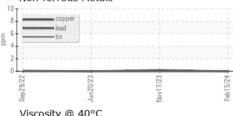


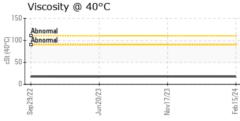


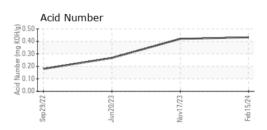
Color

Bottom

Ferrous Alloys Non-ferrous Metals











Laboratory Sample No. Lab Number : 06100568 Unique Number: 10898798

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0860302

Received **Tested**

: 26 Feb 2024 : 28 Feb 2024

Diagnosed

: 28 Feb 2024 - Jonathan Hester

US 13209 Contact: Service Manager

8 DWIGHT PARK DRIVE

SYRACUSE, NY

BODYCOTE HEAT TREATING

Test Package : IND 2 (Additional Tests: KF)

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)

T:

F: