



# OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Area

**Wonder**

Machine Id

**7213-020A**

Component

**Port Hydraulic System**

Fluid

**TUXTON PREMIUM HYDRAULIC AW 32 (38 LTR)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0627566</b>	WC0506669	WC0394181
Sample Date		Client Info		<b>03 Sep 2022</b>	25 Nov 2020	12 Dec 2019
Machine Age	hrs	Client Info		<b>16441</b>	14289	13434
Oil Age	hrs	Client Info		<b>2152</b>	855	4163
Filter Age	hrs	Client Info		<b>2152</b>	855	4163
Oil Changed		Client Info		<b>Not Changed</b>	Not Changed	Not Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	ATTENTION

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>20	<b>2</b>	2	1
Chromium	ppm	ASTM D5185(m)	>10	<b>0</b>	<1	<1
Nickel	ppm	ASTM D5185(m)		<b>0</b>	<1	0
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Silver	ppm	ASTM D5185(m)		<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	0	<1
Lead	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	<1	<1
Copper	ppm	ASTM D5185(m)	>75	<b>14</b>	11	9
Tin	ppm	ASTM D5185(m)	>10	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

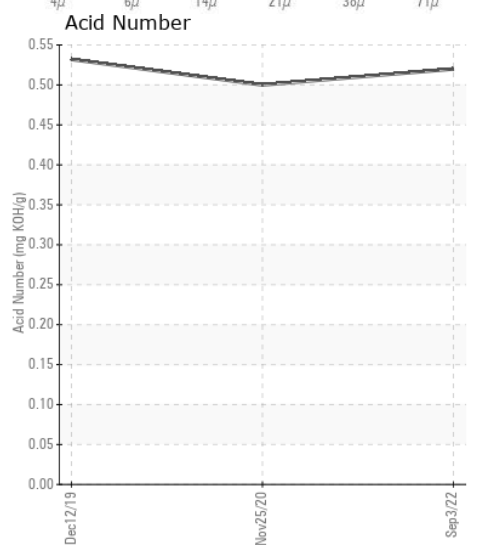
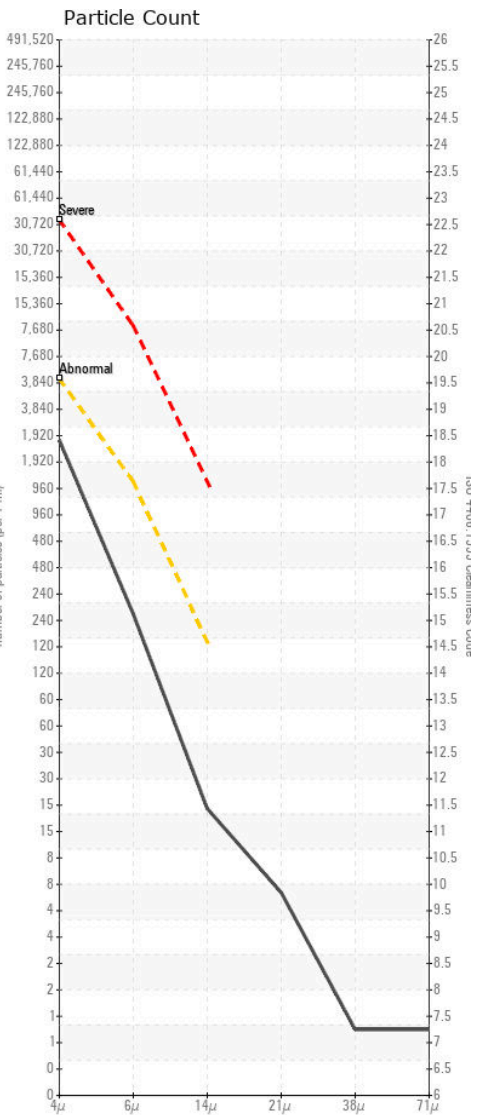
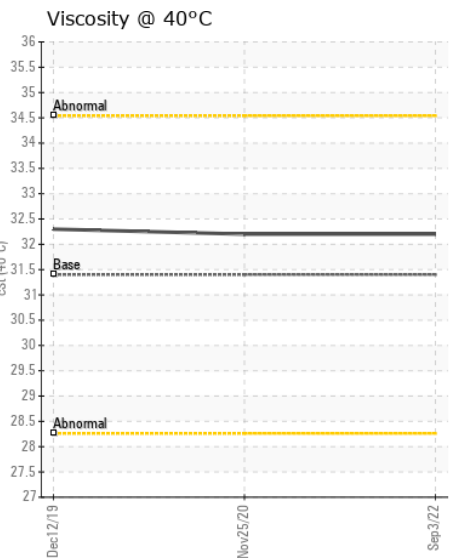
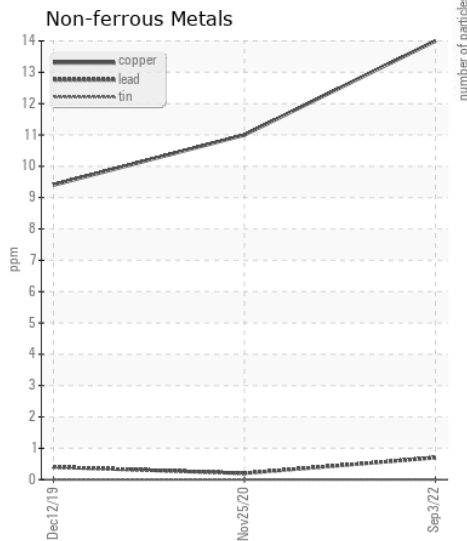
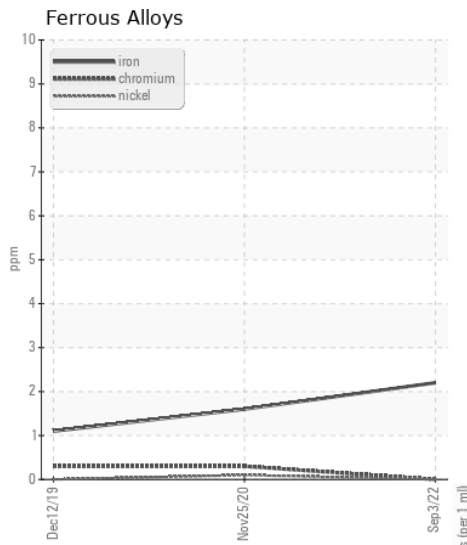
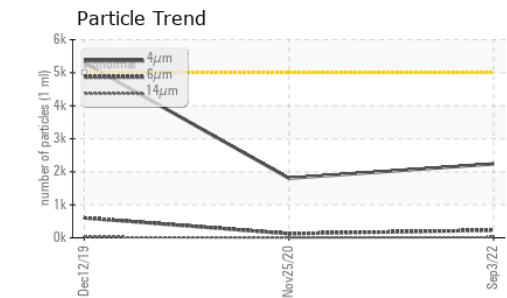
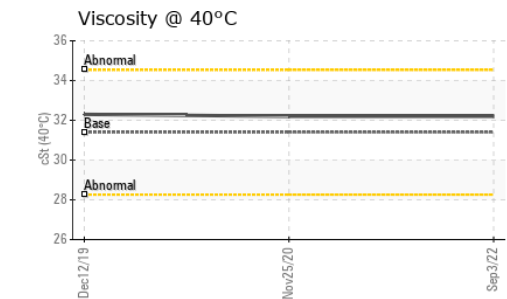
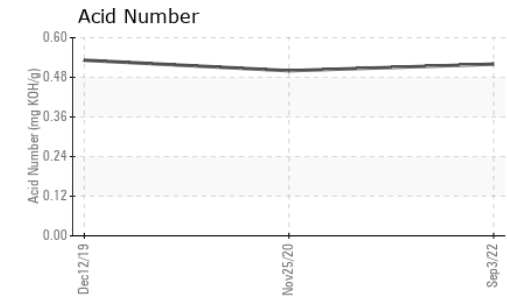
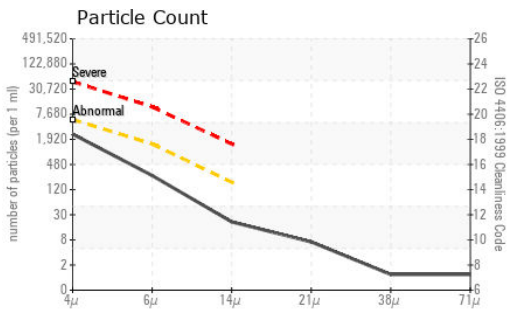
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Silicon	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	0
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	2	<1
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>5000	<b>2239</b>	1805	▲ 5297
Particles >6µm		ASTM D7647	>1300	<b>230</b>	126	603
Particles >14µm		ASTM D7647	>160	<b>18</b>	8	20
Particles >21µm		ASTM D7647	>40	<b>6</b>	2	6
Particles >38µm		ASTM D7647	>10	<b>1</b>	0	0
Particles >71µm		ASTM D7647	>3	<b>1</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>18/15/11</b>	18/14/10	▲ 20/16/11
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	Visual*	>0.1	<b>NEG</b>	NEG	NEG

## FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		<b>&lt;1</b>	2	0
Boron	ppm	ASTM D5185(m)		<b>1</b>	1	1
Barium	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Molybdenum	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1
Manganese	ppm	ASTM D5185(m)		<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m)		<b>1</b>	1	2
Calcium	ppm	ASTM D5185(m)		<b>35</b>	33	35
Phosphorus	ppm	ASTM D5185(m)		<b>363</b>	346	355
Zinc	ppm	ASTM D5185(m)		<b>410</b>	453	442
Sulfur	ppm	ASTM D5185(m)		<b>1416</b>	1491	1414
Acid Number (AN)	mg KOH/g	ASTM D974*		<b>0.52</b>	0.50	0.532
Visc @ 40°C	cSt	ASTM D7279(m)	31.4	<b>32.2</b>	32.2	32.3



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0627566 **Received** : 13 Sep 2022  
**Lab Number** : 02510275 **Tested** : 13 Sep 2022  
**Unique Number** : 5451245 **Diagnosed** : 13 Sep 2022 - Kevin Marson  
**Test Package** : MAR 2 ( Additional Tests: TAN Man )

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To discuss this sample report, contact Customer Service at 1-800-268-2131.  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.  
 Validity of results and interpretation are based on the sample and information as supplied.