



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

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		WC0764534	WC0627566	WC0506669
Sample Date		Client Info		17 Jan 2023	03 Sep 2022	25 Nov 2020
Machine Age	hrs	Client Info		16927	16441	14289
Oil Age	hrs	Client Info		7656	2152	855
Filter Age	hrs	Client Info		486	2152	855
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>20	2	2	2
Chromium	ppm	ASTM D5185(m)	>10	<1	0	<1
Nickel	ppm	ASTM D5185(m)	>10	0	0	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	0	<1
Aluminum	ppm	ASTM D5185(m)	>10	0	<1	0
Lead	ppm	ASTM D5185(m)	>10	<1	<1	<1
Copper	ppm	ASTM D5185(m)	>75	16	14	11
Tin	ppm	ASTM D5185(m)	>10	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE

CONTAMINATION

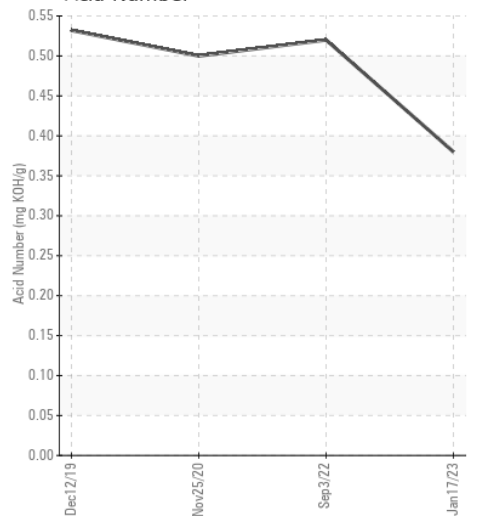
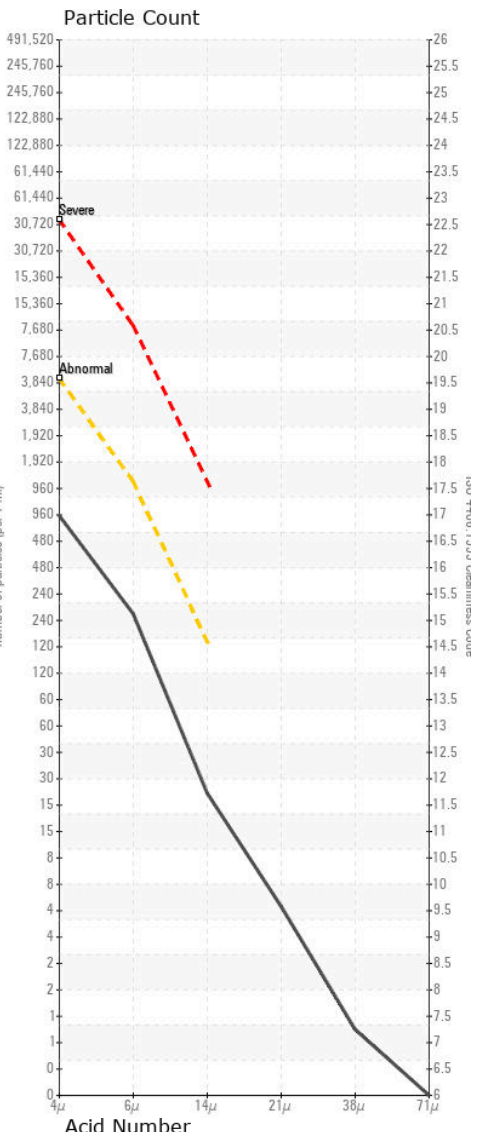
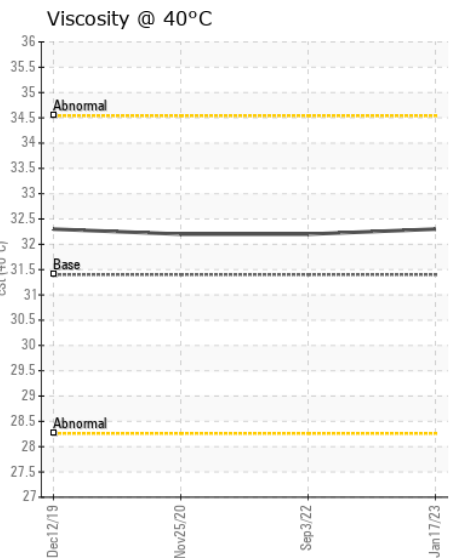
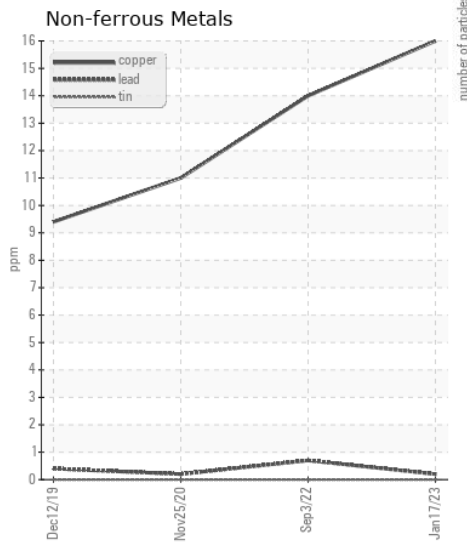
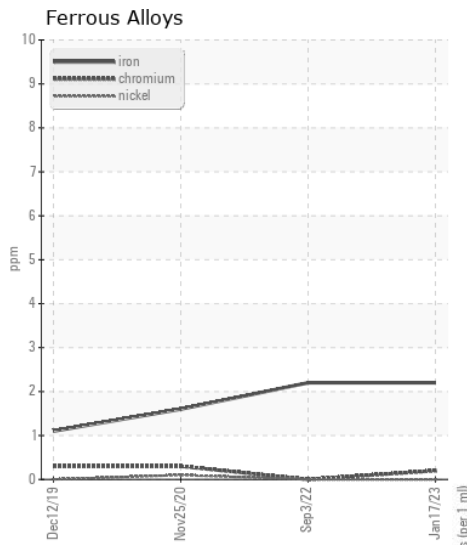
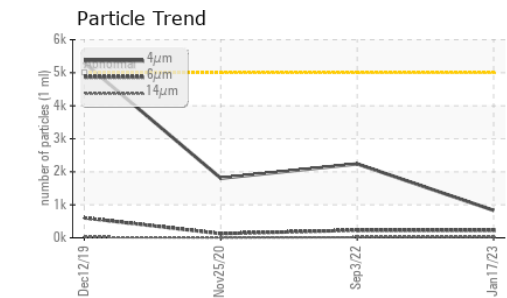
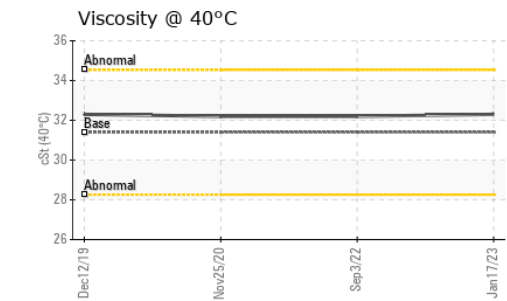
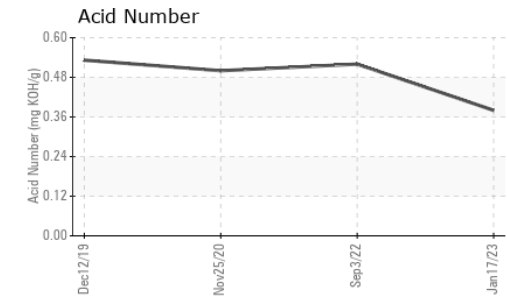
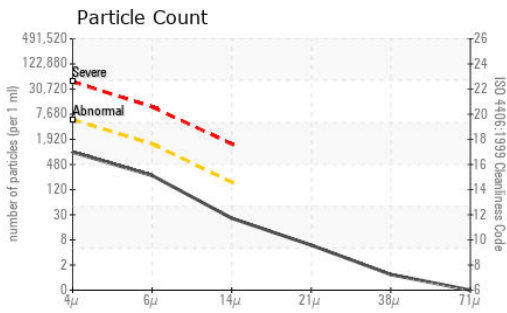
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Silicon	ppm	ASTM D5185(m)	>20	0	<1	<1
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	2
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	831	2239	1805
Particles >6µm		ASTM D7647	>1300	230	230	126
Particles >14µm		ASTM D7647	>160	22	18	8
Particles >21µm		ASTM D7647	>40	5	6	2
Particles >38µm		ASTM D7647	>10	1	1	0
Particles >71µm		ASTM D7647	>3	0	1	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	17/15/12	18/15/11	18/14/10
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*	>0.1	NEG	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)		<1	<1	2
Boron	ppm	ASTM D5185(m)		1	1	1
Barium	ppm	ASTM D5185(m)		0	0	<1
Molybdenum	ppm	ASTM D5185(m)		<1	<1	<1
Manganese	ppm	ASTM D5185(m)		0	0	0
Magnesium	ppm	ASTM D5185(m)		1	1	1
Calcium	ppm	ASTM D5185(m)		37	35	33
Phosphorus	ppm	ASTM D5185(m)		386	363	346
Zinc	ppm	ASTM D5185(m)		437	410	453
Sulfur	ppm	ASTM D5185(m)		1504	1416	1491
Acid Number (AN)	mg KOH/g	ASTM D974*		0.38	0.52	0.50
Visc @ 40°C	cSt	ASTM D7279(m)	31.4	32.3	32.2	32.2



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0764534
Lab Number : 02537878
Unique Number : 5526878
Test Package : MAR 2
Received : 07 Feb 2023
Tested : 08 Feb 2023
Diagnosed : 08 Feb 2023 - Wes Davis

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 Niagara Falls, ON
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 Contact: Evan Dubblestyne
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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.