



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
Temboard/Service/Stock Preparation
 Machine Id
N/A N/A [804-236-040] TB Hardwood Refiner
 Component
Hydraulic System
 Fluid
ESSO NUTO H ISO 68 (37 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0873697	WC0851496	WC0831892
Sample Date		Client Info		10 Nov 2023	10 Sep 2023	10 Jul 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>20	<1	<1	<1
Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Nickel	ppm	ASTM D5185(m)	>20	0	0	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	<1	0	0
Lead	ppm	ASTM D5185(m)	>20	<1	0	0
Copper	ppm	ASTM D5185(m)	>20	<1	<1	<1
Tin	ppm	ASTM D5185(m)	>20	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

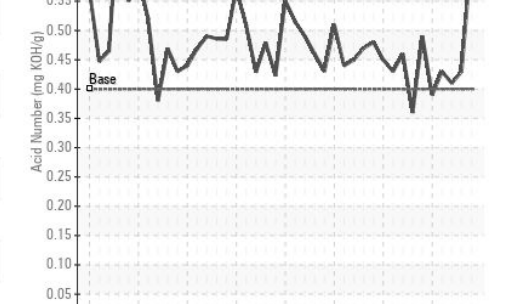
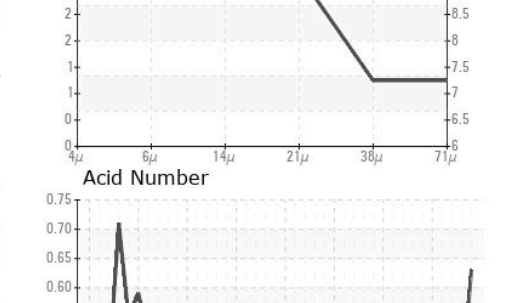
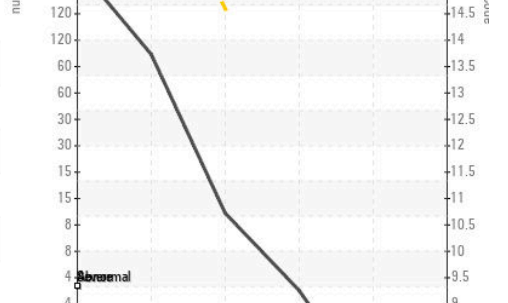
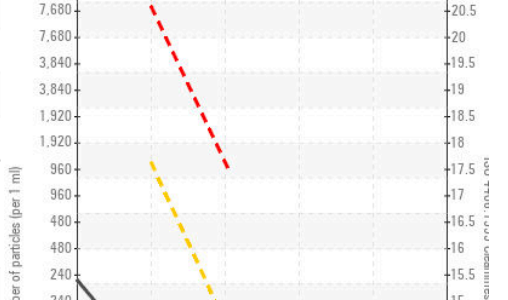
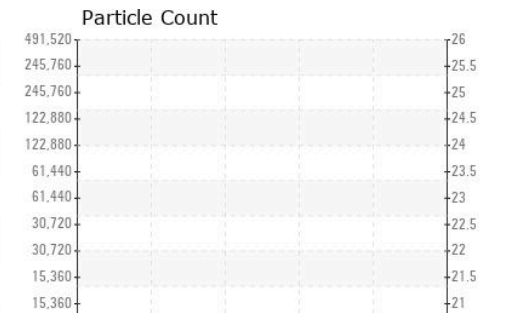
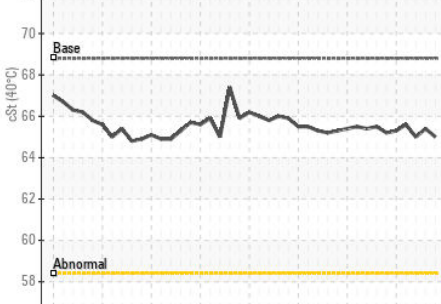
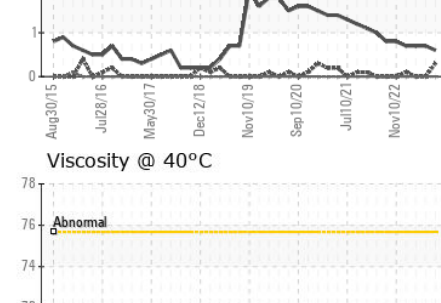
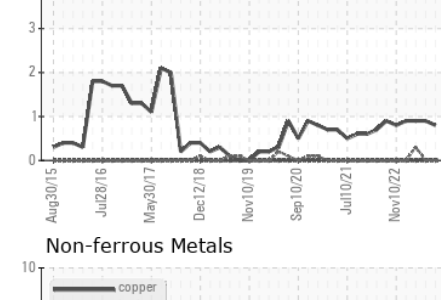
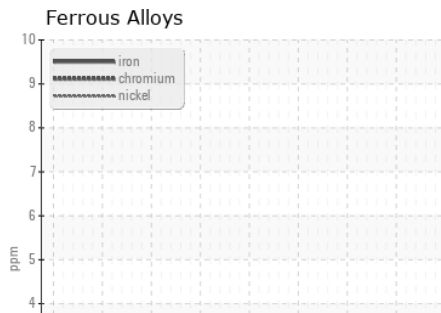
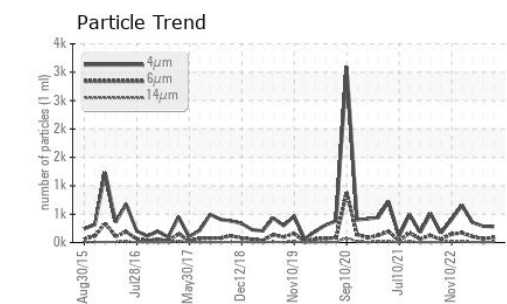
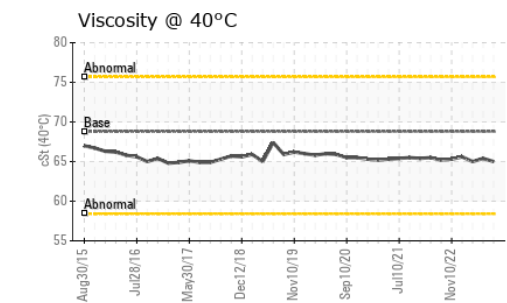
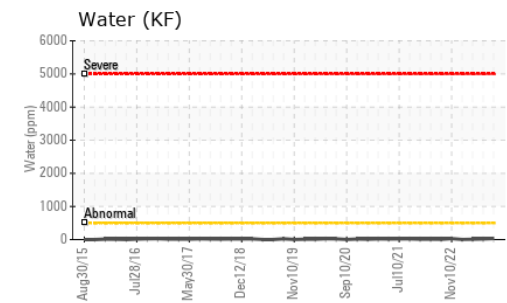
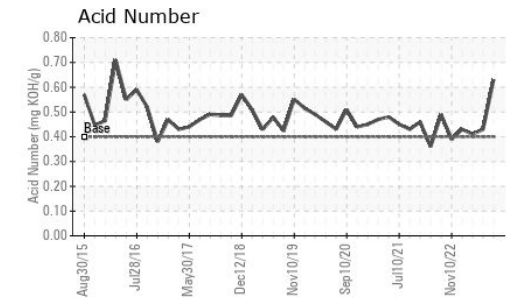
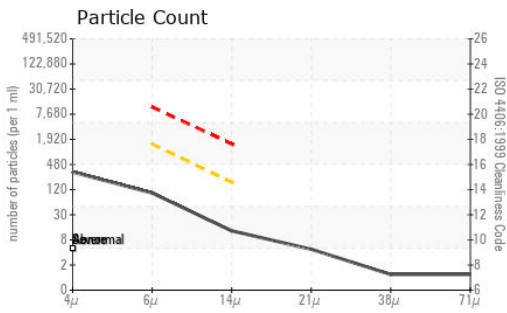
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Silicon	ppm	ASTM D5185(m)	>15	<1	1	4
Potassium	ppm	ASTM D5185(m)	>20	4	0	<1
Water	%	ASTM D6304*	>0.05	0.003	0.002	0.001
ppm Water	ppm	ASTM D6304*	>500	33	18.2	7.6
Particles >4µm		ASTM D7647		279	288	353
Particles >6µm		ASTM D7647	>1300	88	67	105
Particles >14µm		ASTM D7647	>160	11	5	10
Particles >21µm		ASTM D7647	>40	4	2	1
Particles >38µm		ASTM D7647	>10	1	0	0
Particles >71µm		ASTM D7647	>3	1	0	0
Oil Cleanliness		ISO 4406 (c)	~-/17/14	15/14/11	15/13/10	16/14/10
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*	>0.05	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	<1
Boron	ppm	ASTM D5185(m)	0	0	<1	0
Barium	ppm	ASTM D5185(m)	0	0	<1	0
Molybdenum	ppm	ASTM D5185(m)	0	0	0	0
Manganese	ppm	ASTM D5185(m)		0	0	0
Magnesium	ppm	ASTM D5185(m)	5	<1	0	0
Calcium	ppm	ASTM D5185(m)	50	48	48	48
Phosphorus	ppm	ASTM D5185(m)	330	335	359	368
Zinc	ppm	ASTM D5185(m)	420	422	445	435
Sulfur	ppm	ASTM D5185(m)	3100	4204	4100	4276
Acid Number (AN)	mg KOH/g	ASTM D974*	.40	0.63	0.43	0.41
Visc @ 40°C	cSt	ASTM D7279(m)	68.8	65.0	65.4	65.0



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0873697 **Received** : 11 Jan 2024
Lab Number : 02608204 **Tested** : 15 Jan 2024
Unique Number : 5709290 **Diagnosed** : 15 Jan 2024 - Wes Davis
Test Package : IND 2 (Additional Tests: KF, TAN Man)

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.

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