



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL

Area

Temboard/Service/Stock Preparation

Machine Id

N/A N/A [804-236-020] TB Softwood Refiner #2

Component

Hydraulic System

Fluid

SHELL TELLUS 68 (37 LTR)

RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0861531	WC0841331	WC0822102
Sample Date		Client Info		19 Oct 2023	19 Aug 2023	19 Jun 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				ATTENTION	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>20	0	2	1
Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Nickel	ppm	ASTM D5185(m)	>20	<1	0	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	<1	<1	<1
Lead	ppm	ASTM D5185(m)	>20	<1	<1	0
Copper	ppm	ASTM D5185(m)	>20	0	<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

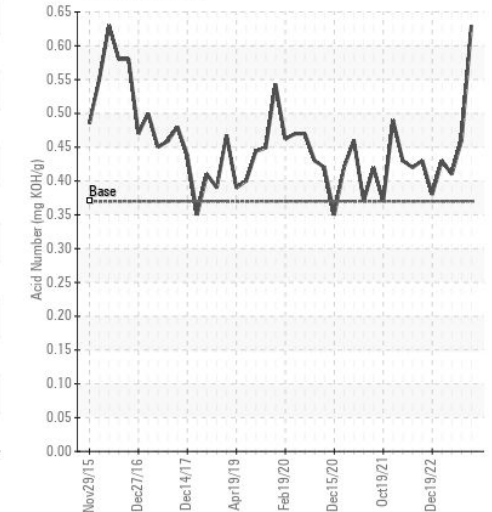
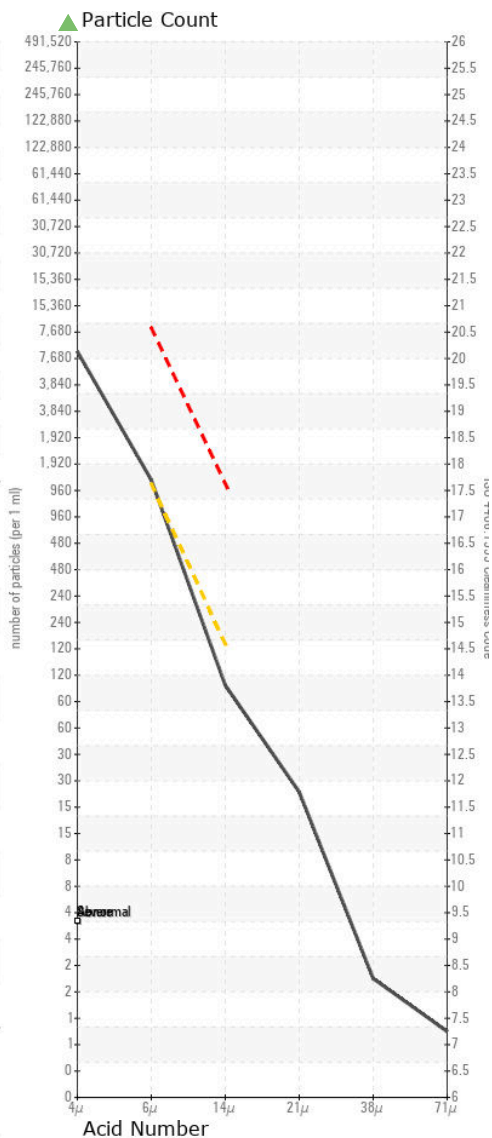
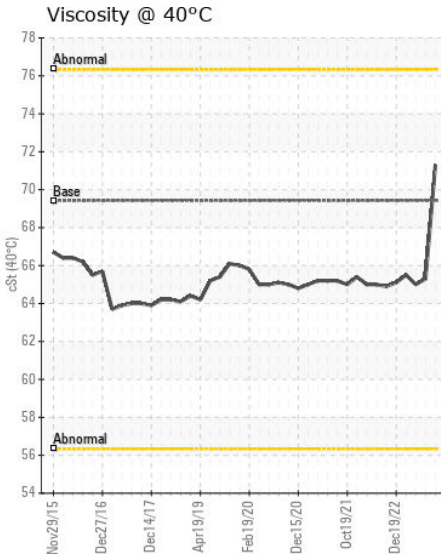
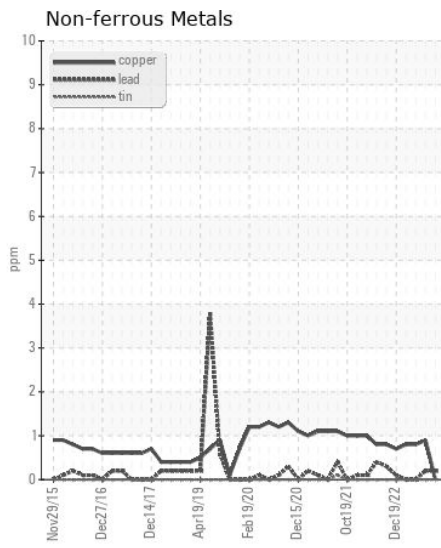
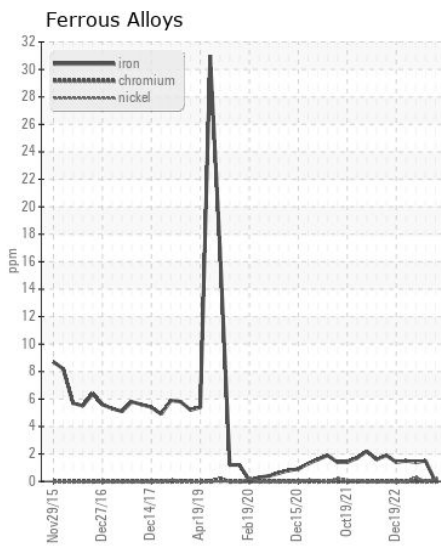
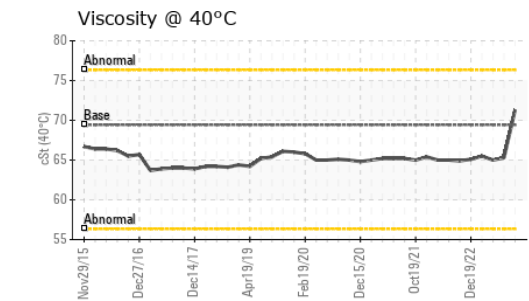
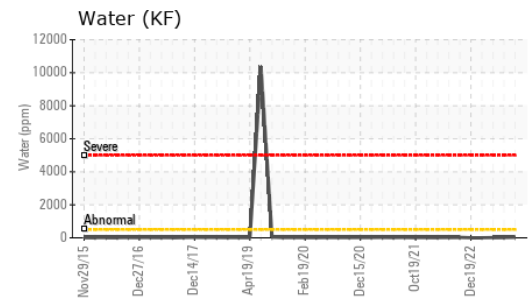
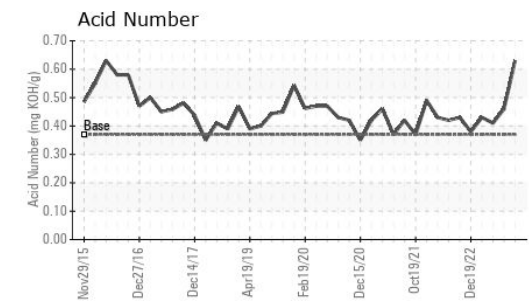
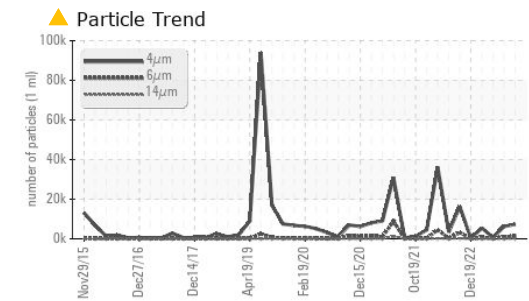
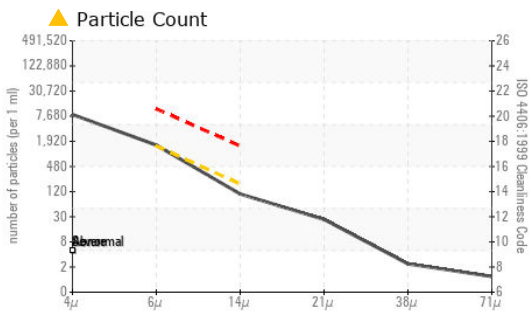
There is a light amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185(m)	>15	2	<1	<1
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	31	16.9	10.4
Particles >4µm		ASTM D7647		7341	6209	746
Particles >6µm		ASTM D7647	>1300	▲ 1364	981	166
Particles >14µm		ASTM D7647	>160	93	42	21
Particles >21µm		ASTM D7647	>40	23	10	5
Particles >38µm		ASTM D7647	>10	2	1	1
Particles >71µm		ASTM D7647	>3	1	0	0
Oil Cleanliness		ISO 4406 (c)	:-/17/14	▲ 20/18/14	20/17/13	17/15/12
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)		0	0	0
Boron	ppm	ASTM D5185(m)		0	<1	0
Barium	ppm	ASTM D5185(m)		0	<1	0
Molybdenum	ppm	ASTM D5185(m)		0	0	0
Manganese	ppm	ASTM D5185(m)		0	0	0
Magnesium	ppm	ASTM D5185(m)	11	0	<1	<1
Calcium	ppm	ASTM D5185(m)	39	52	49	49
Phosphorus	ppm	ASTM D5185(m)	260	339	341	361
Zinc	ppm	ASTM D5185(m)	279	423	437	426
Sulfur	ppm	ASTM D5185(m)	2109	2103	5129	4949
Acid Number (AN)	mg KOH/g	ASTM D974*	0.37	0.63	0.46	0.41
Visc @ 40°C	cSt	ASTM D7279(m)	69.43	71.3	65.3	65.0



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0861531 **Received** : 11 Jan 2024
Lab Number : 02608201 **Diagnosed** : 15 Jan 2024
Unique Number : 5709287 **Diagnostician** : 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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