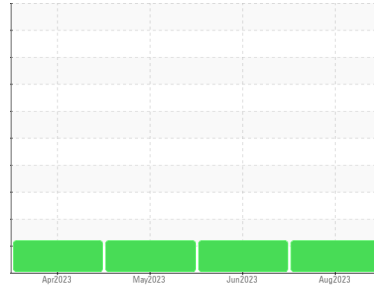


PROBLEM SUMMARY

Sample Rating Trend

ISO

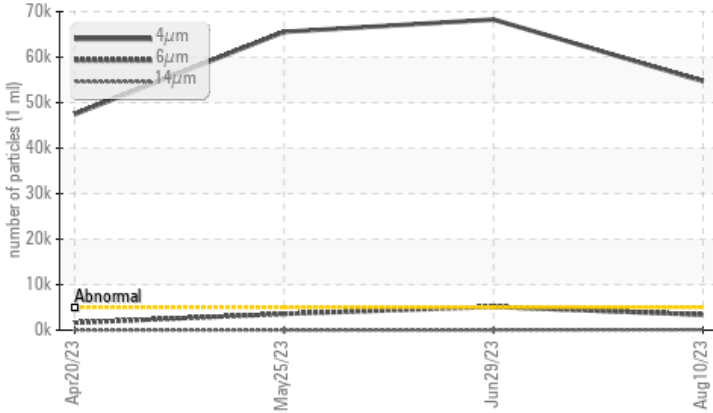


Area
WOOD PROCESSING EQUIPMENT
 Machine Id
SAWMILL SORTER

Component
Hydraulic System
 Fluid
SHELL AW HYDRAULIC S2 46 (--- GAL)

COMPONENT CONDITION SUMMARY

▲ Particle Trend



RECOMMENDATION

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

PROBLEMATIC TEST RESULTS

Sample Status			ABNORMAL	ABNORMAL	ABNORMAL
Particles >4µm	ASTM D7647	>5000	▲ 54715	▲ 68268	▲ 65547
Particles >6µm	ASTM D7647	>1300	▲ 3391	▲ 5135	▲ 3562
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ 23/19/13	▲ 23/20/11	▲ 23/19/10

Customer Id: WEYRAY
 Sample No.: PE0000633
 Lab Number: 05932065
 Test Package: PLANT



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Don Baldrige +1
don.b505@comcast.net

To change component or sample information:
 Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Filter	---	---	?	We recommend you service the filters on this component.

HISTORICAL DIAGNOSIS

29 Jun 2023 Diag: Angela Borella

ISO



We recommend you service the filters on this component. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

view report



25 May 2023 Diag: Don Baldrige

ISO



We recommend you service the filters on this component. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

view report



20 Apr 2023 Diag: Angela Borella

ISO

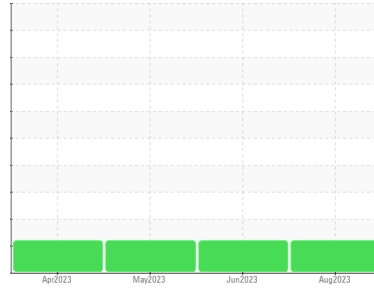


We recommend you service the filters on this component. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

view report



Area
WOOD PROCESSING EQUIPMENT
 Machine Id
SAWMILL SORTER
 Component
Hydraulic System
 Fluid
SHELL AW HYDRAULIC S2 46 (--- GAL)



DIAGNOSIS

Recommendation

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

Wear

All component wear rates are normal.

Contamination

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

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PE0000633	PE0001127	PE0001139
Sample Date	Client Info	10 Aug 2023	29 Jun 2023	25 May 2023
Machine Age	hrs	Client Info	0	0
Oil Age	hrs	Client Info	0	0
Oil Changed	Client Info	N/A	N/A	N/A
Sample Status		ABNORMAL	ABNORMAL	ABNORMAL

WEAR METALS

method	limit/base	current	history1	history2
PQ	ASTM D8184	15	12	11
Iron	ppm	ASTM D5185m >20	2	3
Chromium	ppm	ASTM D5185m >20	0	0
Nickel	ppm	ASTM D5185m >20	0	0
Titanium	ppm	ASTM D5185m	0	0
Silver	ppm	ASTM D5185m	0	0
Aluminum	ppm	ASTM D5185m >20	<1	2
Lead	ppm	ASTM D5185m >20	0	0
Copper	ppm	ASTM D5185m >20	<1	<1
Tin	ppm	ASTM D5185m >20	0	0
Vanadium	ppm	ASTM D5185m	<1	0
Cadmium	ppm	ASTM D5185m	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0
Barium	ppm	ASTM D5185m	0	0
Molybdenum	ppm	ASTM D5185m	<1	<1
Manganese	ppm	ASTM D5185m	<1	0
Magnesium	ppm	ASTM D5185m	10	12
Calcium	ppm	ASTM D5185m	60	63
Phosphorus	ppm	ASTM D5185m	285	292
Zinc	ppm	ASTM D5185m	322	351
Sulfur	ppm	ASTM D5185m	1357	1439

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	<1	<1
Sodium	ppm	ASTM D5185m	0	0
Potassium	ppm	ASTM D5185m >20	0	<1

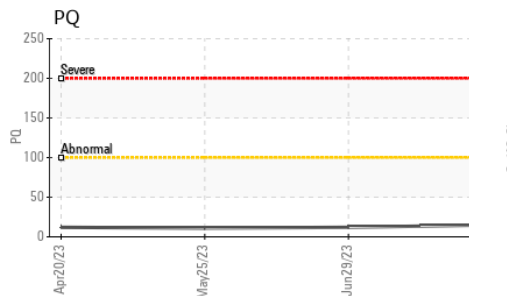
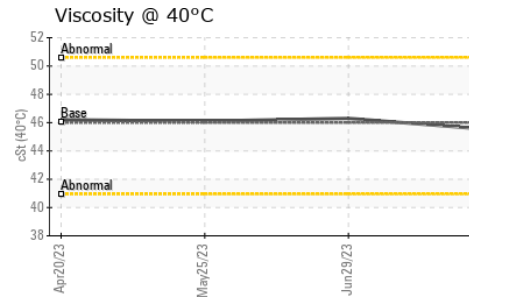
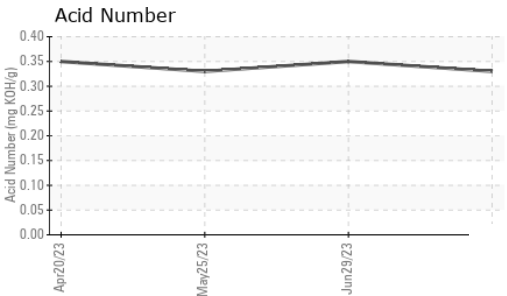
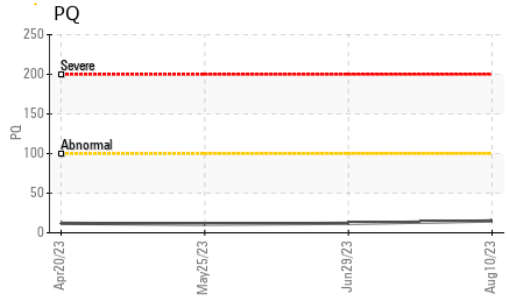
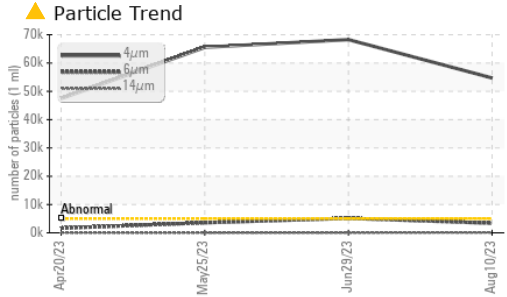
FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >5000	▲ 54715	▲ 68268	▲ 65547
Particles >6µm	ASTM D7647 >1300	▲ 3391	▲ 5135	▲ 3562
Particles >14µm	ASTM D7647 >160	74	20	9
Particles >21µm	ASTM D7647 >40	7	1	0
Particles >38µm	ASTM D7647 >10	0	0	0
Particles >71µm	ASTM D7647 >3	0	0	0
Oil Cleanliness	ISO 4406 (c) >19/17/14	▲ 23/19/13	▲ 23/20/11	▲ 23/19/10

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.33	0.35

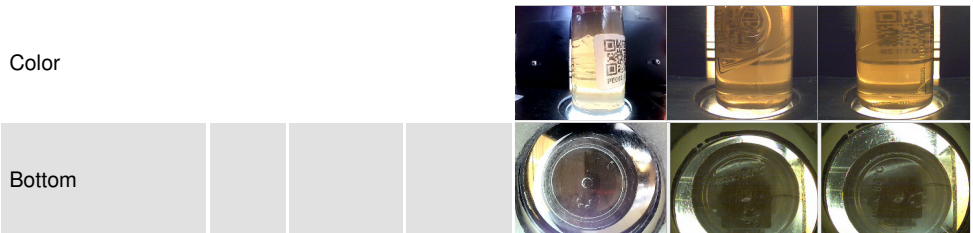
OIL ANALYSIS REPORT



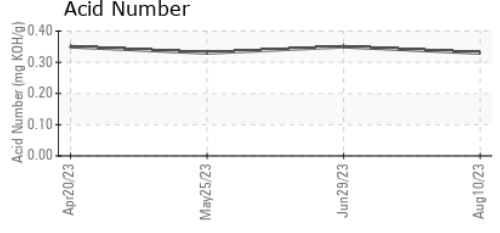
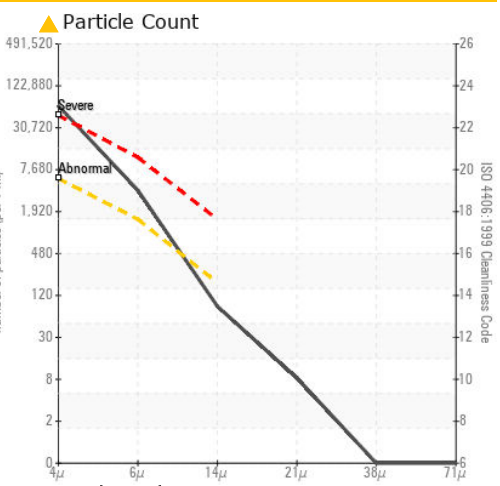
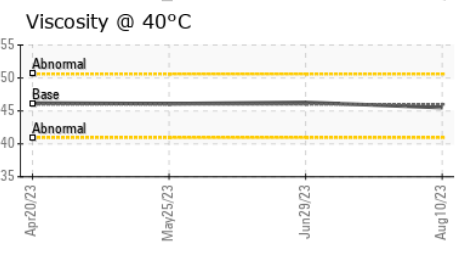
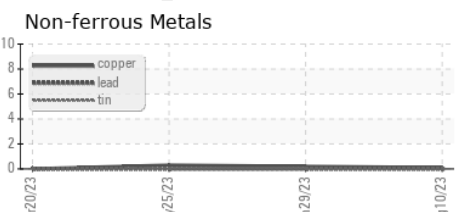
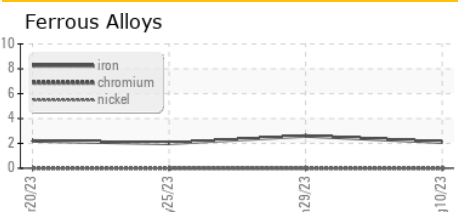
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 46	45.5	46.3	46.1

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PE0000633 **Received** : 23 Aug 2023
Lab Number : 05932065 **Diagnosed** : 24 Aug 2023
Unique Number : 10617336 **Diagnostician** : Don Baldrige
Test Package : PLANT (Additional Tests: ICP, KV40, PQ, PrtCount, SCREEN)

WEYERHAEUSER - RAYMOND LUMBER
 1740 51 ELLIS ST
 RAYMOND, WA
 US 98577
 Contact: JOHNNY DOMINGUEZ
 johnny.dominguez@weyerhaeuser.com

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)