

## **OIL ANALYSIS REPORT**

### Area WOOD PROCESSING EQUIPMENT Machine for SAWMILL SORTER

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

#### DIAGNOSIS

#### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

#### Wear

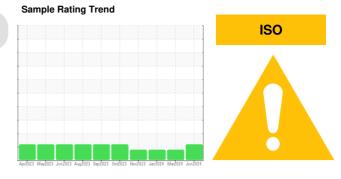
All component wear rates are normal.

#### 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 suitable for further service.



SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PE0003621	PE0000641	PE0000737
Sample Date		Client Info		07 Jun 2024	15 Mar 2024	25 Jan 2024
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.05	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		22	11	17
Iron	ppm	ASTM D5185m	>20	2	<1	2
Chromium	ppm	ASTM D5185m	>20	<1	<1	0
Nickel	ppm	ASTM D5185m	>20	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	3	0
Lead	ppm	ASTM D5185m	>20	0	<1	0
Copper	ppm	ASTM D5185m	>20	0	<1	0
Tin	ppm	ASTM D5185m	>20	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<1	0	0
Barium	ppm	ASTM D5185m		0	<1	0
Molybdenum	ppm	ASTM D5185m		0	<1	<1
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		11	11	10
Calcium	ppm	ASTM D5185m		53	64	55
Phosphorus	ppm	ASTM D5185m		287	274	295
Zinc	ppm	ASTM D5185m		324	309	342
Sulfur	ppm	ASTM D5185m		1144	1033	1262
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	<1	<1
Sodium	ppm	ASTM D5185m		0	0	0
Potassium	ppm	ASTM D5185m	>20	<1	<1	1
FLUID CLEANLINE	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	▲ 66924	▲ 58471	▲ 60465
Particles >6µm		ASTM D7647	>1300	<u> </u>	421	758
Particles >14µm		ASTM D7647	>160	2	9	7
Particles >21µm		ASTM D7647	>40	0	2	2
				-		

ASTM D7647 >10

ASTM D7647 >3

ISO 4406 (c) >19/17/14 A 23/19/9

0

0

Particles >38µm

Particles >71µm

**Oil Cleanliness** 

0

0

▲ 23/17/10

0

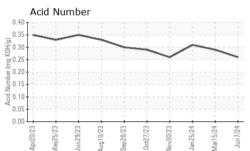
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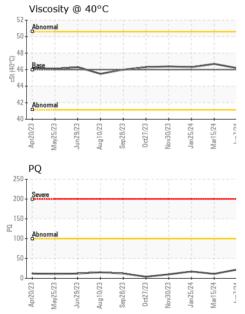
▲ 23/16/10



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70k (60k (1) 50k 50k 50k 50k 50k 50k 50k 50k 50k 50k	Abn	ticle	Tren <sup>4μm</sup> <sup>6μm</sup>	d				_			
Ok	Apr20/23	May25/23	Jun29/23	Aug10/23	Sep28/23	0ct27/23	Nov30/23 -	Jan25/24	Mar15/24	Jun7/24	
250	PQ										
200	Sev	ere									
150	)										
문 100	Abr	ormal								-	
50	)										
C	Apr20/23	May25/23 -	Jun29/23 -	Aug10/23 -	Sep 28/23 -	0ct27/23	Nov30/23 -	Jan25/24 -	Mar15/24 -	Jun7/24	



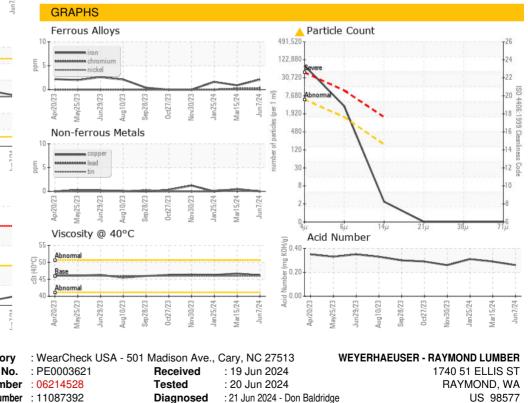


FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.26	0.29	0.31
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
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
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	46.2	46.7	46.3
SAMPLE IMAGES		method	limit/base	current	history1	history2

Color



Bottom





à	Laboratory
ANAB	Sample No.
ACCREDITED	Lab Number
TESTING LABORATORY	Unique Number
Certificate L2367	Test Package

 Test Package
 : PLANT (Additional Tests: ICP, KV40, PQ, PrtCount, SCREEN)

 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)

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