

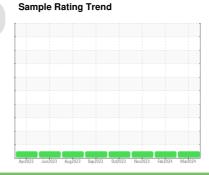
# **OIL ANALYSIS REPORT**

# WOOD PROCESSING EQUIPMENT Machine Id PLANER STACKER

Component

**Hydraulic System** 

SHELL AW HYDRAULIC S2 46 (--- GAL)





## DIAGNOSIS

# Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

# **Fluid Condition**

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PE0000700	PE06098278	PE0000732
Sample Date		Client Info		15 Mar 2024	22 Feb 2024	30 Nov 2023
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				NORMAL	NORMAL	NORMAL
CONTAMINATION	V	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		15	13	12
Iron	ppm	ASTM D5185m	>20	0	2	0
Chromium	ppm	ASTM D5185m	>20	<1	<1	0
Nickel	ppm	ASTM D5185m	>20	0	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	<1	0
Aluminum	ppm	ASTM D5185m	>20	3	<1	0
Lead	ppm	ASTM D5185m	>20	<1	<1	0
Copper	ppm	ASTM D5185m	>20	4	2	1
Tin	ppm	ASTM D5185m	>20	<1	<1	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	<1	0
ADDITIVES		method	limit/base	current	history1	history2
ADDITIVES Boron	ppm	method ASTM D5185m	limit/base	current <b>0</b>	history1 0	history2 6
	ppm		limit/base			*
Boron	• • • • • • • • • • • • • • • • • • • •	ASTM D5185m	limit/base	0	0	6
Boron Barium	ppm	ASTM D5185m ASTM D5185m	limit/base	0 <1	0 5	6
Boron Barium Molybdenum	ppm	ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	0 <1 <1	0 5 1	6 0 0
Boron Barium Molybdenum Manganese	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	0 <1 <1 0	0 5 1 <1	6 0 0 <1
Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	0 <1 <1 0	0 5 1 <1 7	6 0 0 <1 8
Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	0 <1 <1 0 9 59	0 5 1 <1 7 51	6 0 0 <1 8 322
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	0 <1 <1 0 9 59 302	0 5 1 <1 7 51 259	6 0 0 <1 8 322 383
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	0 <1 <1 0 9 59 302 375	0 5 1 <1 7 51 259 334	6 0 0 <1 8 322 383 465
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0 <1 <1 0 9 59 302 375 2013	0 5 1 <1 7 51 259 334 1811	6 0 0 <1 8 322 383 465 2117
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	limit/base	0 <1 <1 0 9 59 302 375 2013 current	0 5 1 <1 7 51 259 334 1811 history1	6 0 0 <1 8 322 383 465 2117 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	limit/base >15	0 <1 <1 <1 0 9 59 302 375 2013 current	0 5 1 <1 7 51 259 334 1811 history1	6 0 0 <1 8 322 383 465 2117 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	limit/base >15	0 <1 <1 <1 0 9 59 302 375 2013 current 2 0	0 5 1	6 0 0 <1 8 322 383 465 2117 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m  method ASTM D5185m	limit/base >15 >20 limit/base >5000	0 <1 <1 <1 0 9 59 302 375 2013 current 2 0 <1 current 473	0 5 1 <1 7 51 259 334 1811 history1 2 0 <1 history1 196	6 0 0   0   322 383 465 2117   history2   1 11 0   history2 440
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	limit/base >15 >20 limit/base	0 <1 <1 <1 0 9 59 302 375 2013 current 2 0 <1 current	0 5 1 <1 7 51 259 334 1811 history1 2 0 <1	6 0 0 <1 8 322 383 465 2117 history2 1 11 0
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m  Method ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647	limit/base >15 >20 limit/base >5000 >1300 >160	0 <1 <1 0 9 59 302 375 2013 current 2 0 <1 current 473 59 5	0 5 1 <1 7 51 259 334 1811 history1 2 0 <1 history1 196 62 6	6 0 0 <li>1 8 322 383 465 2117 history2 1 11 0 history2 440 152 13</li>
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m  method ASTM D5185m	limit/base >15 >20 limit/base >5000 >1300 >160	0 <1 <1 0 9 59 302 375 2013 current 2 0 <1 current 473 59	0 5 1 <1 7 51 259 334 1811 history1 2 0 <1 history1 196 62 6 1	6 0 0 <li>1 8 322 383 465 2117 history2 1 11 0 history2 440 152</li>
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur  CONTAMINANTS Silicon Sodium Potassium  FLUID CLEANLIN Particles >4µm Particles >14µm Particles >21µm Particles >38µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m  Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	limit/base >15 >20 limit/base >5000 >1300 >160 >40 >10	0 <1 <1 <1 0 9 59 302 375 2013 current 2 0 <1 current 473 59 5 2 0 0	0 5 1 <1 7 51 259 334 1811 history1 2 0 <1 history1 196 62 6	6 0 0 <li>1 8 322 383 465 2117 history2 1 11 0 history2 440 152 13</li>
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >14µm Particles >21µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m  Method ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647	limit/base >15 >20 limit/base >5000 >1300 >160 >40 >10	0 <1 <1 <1 0 9 59 302 375 2013 current 2 0 <1 current 473 59 5 2	0 5 1 <1 7 51 259 334 1811 history1 2 0 <1 history1 196 62 6 1	6 0 0 <1 8 322 383 465 2117 history2 1 11 0 history2 440 152 13 3



# **OIL ANALYSIS REPORT**

