

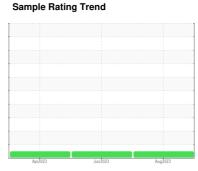
OIL ANALYSIS REPORT

WOOD PROCESSING EQUIPMENT **PLANER BANDER**

Component

Hydraulic System

SHELL AW HYDRAULIC S2 46 (--- GAL)





DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

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.

Ap-2023 Jun2023 Aug2023						
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PE0001119	PE0001113	PE0001132
Sample Date		Client Info		10 Aug 2023	29 Jun 2023	20 Apr 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
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		12	9	12
Iron	ppm	ASTM D5185m	>20	0	<1	<1
Chromium	ppm	ASTM D5185m	>20	0	0	0
Nickel	ppm	ASTM D5185m	>20	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	<1	1	0
Lead	ppm	ASTM D5185m	>20	0	<1	0
Copper	ppm	ASTM D5185m	>20	4	5	5
Tin	ppm	ASTM D5185m	>20	0	<1	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m		0	0 <1	0 <1
				-		-
Molybdenum	ppm	ASTM D5185m		0	<1	<1
Molybdenum Manganese	ppm	ASTM D5185m ASTM D5185m		0 <1	<1	<1 <1
Molybdenum Manganese Magnesium	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m		0 <1 6	<1 0 9	<1 <1 8
Molybdenum Manganese Magnesium Calcium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0 <1 6 54	<1 0 9 57	<1 <1 8 57
Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0 <1 6 54 312	<1 0 9 57 320	<1 <1 8 57 304
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	0 <1 6 54 312 376	<1 0 9 57 320 417	<1 <1 8 57 304 380
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base >15	0 <1 6 54 312 376 2376	<1 0 9 57 320 417 2543	<1 <1 8 57 304 380 2446
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0 <1 6 54 312 376 2376 current	<1 0 9 57 320 417 2543 history1	<1 <1 8 57 304 380 2446 history2
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m Method ASTM D5185m		0 <1 6 54 312 376 2376 current	<1 0 9 57 320 417 2543 history1	<1 <1 8 57 304 380 2446 history2
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	>15	0 <1 6 54 312 376 2376 current 1 0	<1 0 9 57 320 417 2543 history1 2	<1 <1 8 57 304 380 2446 history2 1 0
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	>15 >20	0 <1 6 54 312 376 2376 current 1 0 0	<1 0 9 57 320 417 2543 history1 2 0 <1	<1 <1 8 57 304 380 2446 history2 1 0 0
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	>15 >20 limit/base	0 <1 6 54 312 376 2376 current 1 0 0 current	<1 0 9 57 320 417 2543 history1 2 0 <1	<1 <1 8 57 304 380 2446 history2 1 0 0 history2
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m Method ASTM D5185m	>15 >20 limit/base >5000	0 <1 6 54 312 376 2376 current 1 0 0 current 361 93 14	<1 0 9 57 320 417 2543 history1 2 0 <1 history1	<1 <1 8 57 304 380 2446 history2 1 0 0 history2 703
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	ASTM D5185m method ASTM D5185m	>15 >20 limit/base >5000 >1300	0 <1 6 54 312 376 2376 current 1 0 0 current 361 93	<1 0 9 57 320 417 2543 history1 2 0 <1 history1 214 32	<1 <1 8 57 304 380 2446 history2 1 0 0 history2 703 220
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	ASTM D5185m Method ASTM D5185m ASTM D5185m Method ASTM D5185m	>15 >20 limit/base >5000 >1300 >160	0 <1 6 54 312 376 2376 current 1 0 0 current 361 93 14	<1 0 9 57 320 417 2543 history1 2 0 <1 history1 214 32 4	<1 <1 8 57 304 380 2446 history2 1 0 0 history2 703 220 23
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	ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647	>15 >20 limit/base >5000 >1300 >160 >40	0 <1 6 54 312 376 2376 current 1 0 0 current 361 93 14 3	<1 0 9 57 320 417 2543 history1 2 0 <1 history1 214 32 4 1	<1 <1 8 57 304 380 2446 history2 1 0 0 history2 703 220 23 7
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	ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>15 >20 limit/base >5000 >1300 >160 >40 >10	0 <1 6 54 312 376 2376 current 1 0 0 current 361 93 14 3 0	<1 0 9 57 320 417 2543 history1 2 0 <1 history1 214 32 4 1 0	<1 <1 8 57 304 380 2446 history2 1 0 0 history2 703 220 23 7 0
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >21µm Particles >38µm Particles >71µm	ppm	ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>15 >20 limit/base >5000 >1300 >160 >40 >10 >3	0 <1 6 54 312 376 2376 current 1 0 0 current 361 93 14 3 0 0 0	<1 0 9 57 320 417 2543 history1 2 0 <1 history1 214 32 4 1 0 0	<1 <1 8 57 304 380 2446 history2 1 0 0 history2 703 220 23 7 0 0



OIL ANALYSIS REPORT

