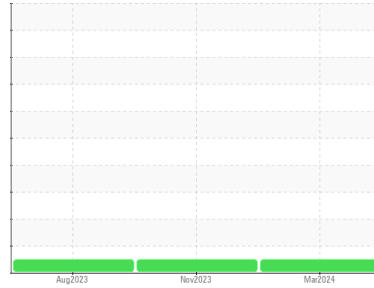




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
REFINER - SWING

Component
Bearing

Fluid
TOTAL CIRKAN RO 68 (45 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 INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			PH0002644	PH0001458	PH0001168
Sample Date	Client Info			19 Mar 2024	09 Nov 2023	01 Aug 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		method	limit/base	current	history1	history2
Water	WC Method		>2	NEG	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	3	2	2
Chromium	ppm	ASTM D5185m	>20	<1	0	0
Nickel	ppm	ASTM D5185m	>20	0	0	0
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	0	0	<1
Lead	ppm	ASTM D5185m	>20	11	10	11
Copper	ppm	ASTM D5185m	>20	1	<1	<1
Tin	ppm	ASTM D5185m	>20	3	2	2
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		<1	0	<1

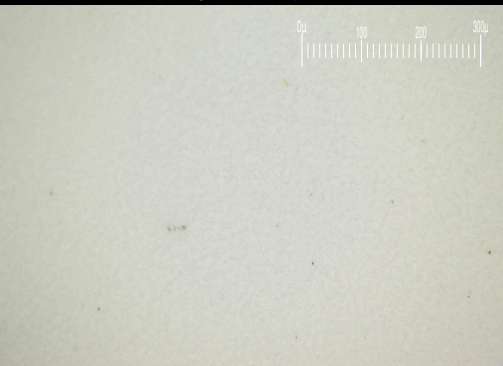
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	<1
Molybdenum	ppm	ASTM D5185m		<1	0	0
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m		0	0	6
Calcium	ppm	ASTM D5185m		<1	0	2
Phosphorus	ppm	ASTM D5185m		7	0	9
Zinc	ppm	ASTM D5185m		0	0	16
Sulfur	ppm	ASTM D5185m		5361	4691	4529

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	<1	<1
Sodium	ppm	ASTM D5185m		2	1	3
Potassium	ppm	ASTM D5185m	>20	0	2	0

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>10000	490	557	361	
Particles >6µm	ASTM D7647	>1300	184	200	81	
Particles >14µm	ASTM D7647	>320	26	23	8	
Particles >21µm	ASTM D7647	>80	8	7	4	
Particles >38µm	ASTM D7647	>20	1	0	0	
Particles >71µm	ASTM D7647	>4	0	0	0	
Oil Cleanliness	ISO 4406 (c)	>20/17/15	16/15/12	16/15/12	16/14/10	

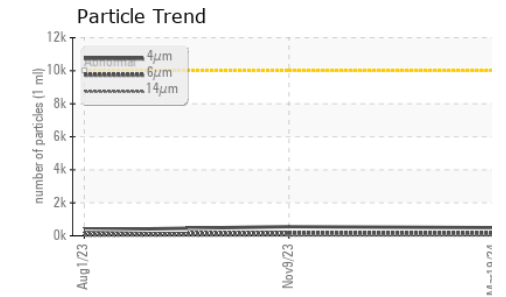
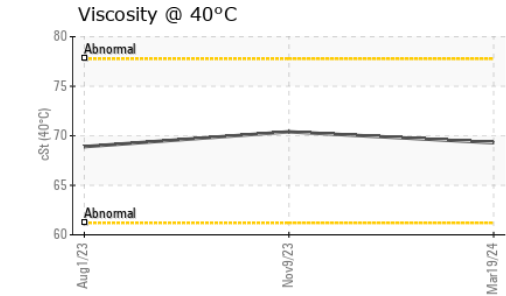
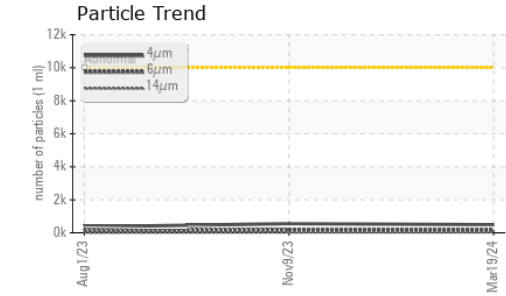
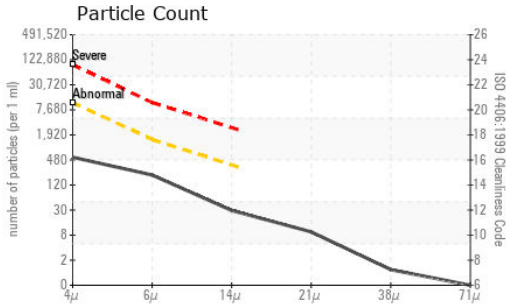
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.082	0.07	0.092

Particle Filter (Magn: 200 x)





OIL ANALYSIS REPORT



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PH0002644 **Received** : 21 Mar 2024
Lab Number : **06124894** **Tested** : 27 Mar 2024
Unique Number : 10939045 **Diagnosed** : 27 Mar 2024 - Jonathan Hester
Test Package : PLANT (Additional Tests: PrtFilter)

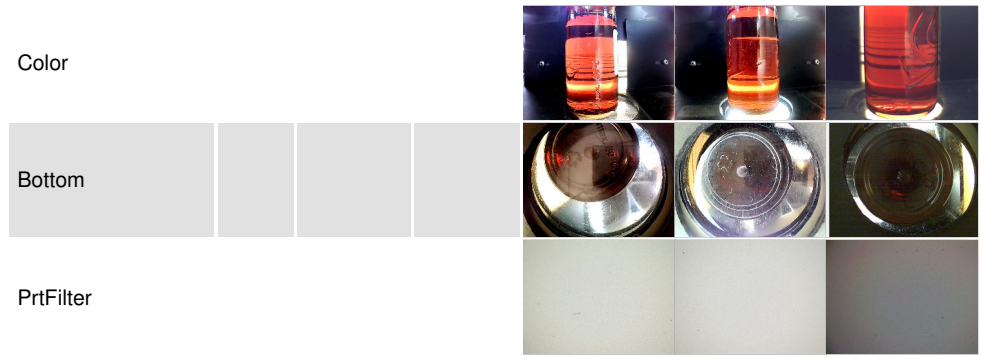
LANGBOARD MDF
 548 LANGBOARD RD
 WILLACOOCHEE, GA
 US 31650
 Contact: DAVID COURSON
 dcourson@langboard.com
 T: (912)534-5959
 F:

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)

VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
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	>2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	69.3	70.4	68.9

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS

