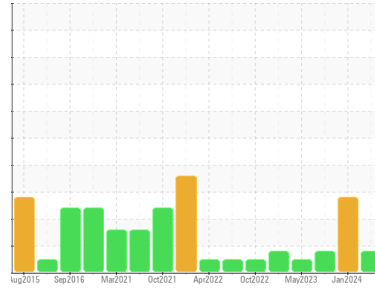




OIL ANALYSIS REPORT

Sample Rating Trend



Area
OUTSIDE HYDRAULIC
 Machine Id
2070 PP02
 Component
Hydraulic System
 Fluid
KLUBER SUMMIT HYSYN FG 46 (40 GAL)

DIAGNOSIS

- Recommendation**
No corrective action is recommended at this time. Resample at the next service interval to monitor.
- Wear**
The iron level is abnormal. All other component wear rates are normal.
- Contamination**
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 acceptable for the time in service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			WC0773254	WC0773251	WC0668048
Sample Date	Client Info			23 Jun 2024	29 Jan 2024	25 Jul 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed	Client Info			N/A	Not Changd	Not Changd
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		24	17	19
Iron	ppm	ASTM D5185m	>20	▲ 30	▲ 26	▲ 27
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>20	<1	0	0
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	0	1	0
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m	>20	41	38	40
Tin	ppm	ASTM D5185m	>20	1	4	0
Vanadium	ppm	ASTM D5185m		0	0	<1
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
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m		0	<1	2
Calcium	ppm	ASTM D5185m		24	33	27
Phosphorus	ppm	ASTM D5185m		521	436	494
Zinc	ppm	ASTM D5185m		38	38	35
Sulfur	ppm	ASTM D5185m		1714	1290	1584

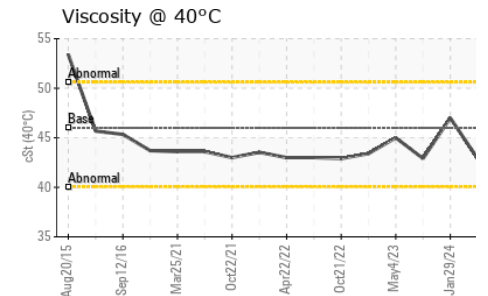
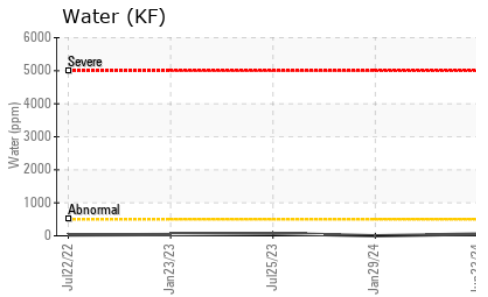
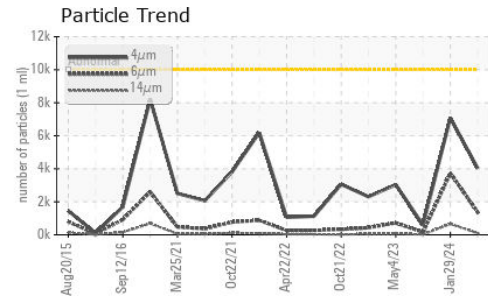
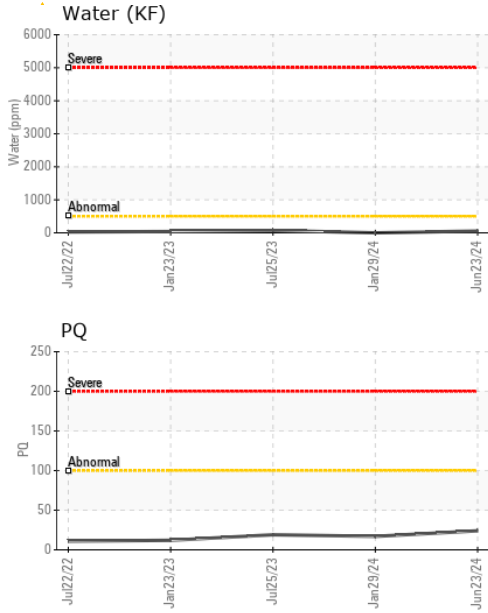
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	3	<1
Sodium	ppm	ASTM D5185m		2	1	1
Potassium	ppm	ASTM D5185m	>20	2	<1	0
Water	%	ASTM D6304	>0.05	0.005	0.00	0.007
ppm Water	ppm	ASTM D6304	>500	54	0	71.5

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	4035	7078	592
Particles >6µm		ASTM D7647	>2500	1372	▲ 3735	162
Particles >14µm		ASTM D7647	>320	95	▲ 665	21
Particles >21µm		ASTM D7647	>80	16	▲ 234	7
Particles >38µm		ASTM D7647	>20	0	▲ 22	1
Particles >71µm		ASTM D7647	>4	0	2	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	19/18/14	▲ 20/19/17	16/15/12

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.128	0.134	0.063



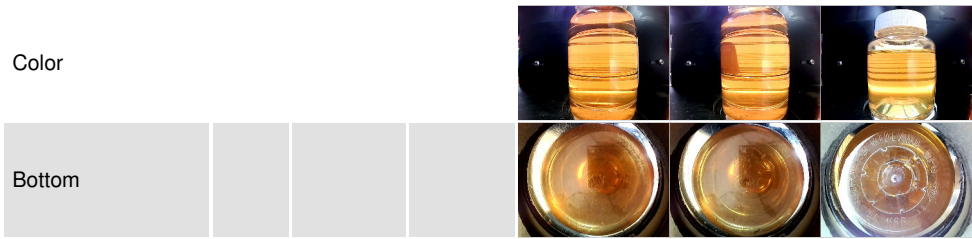
OIL ANALYSIS REPORT



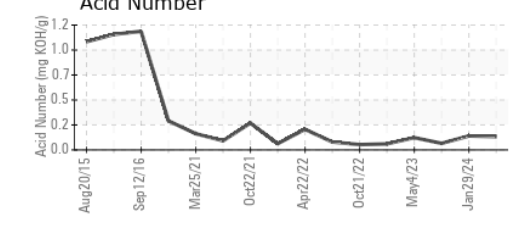
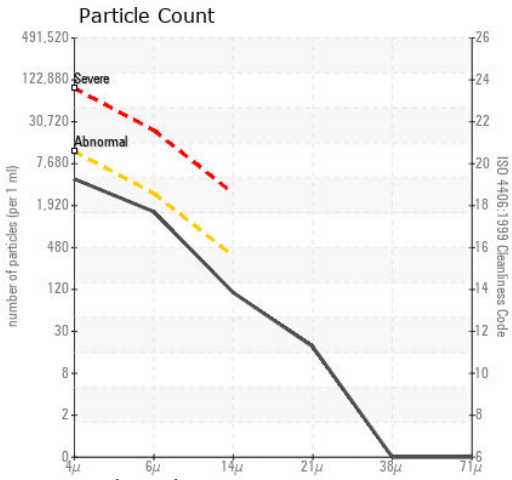
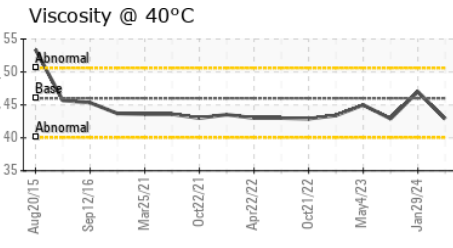
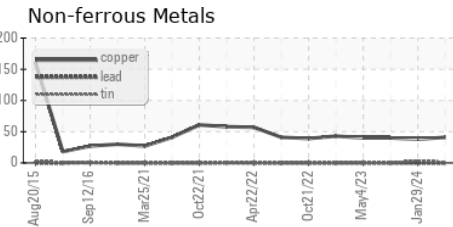
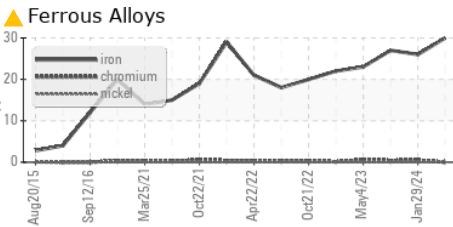
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>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	42.9	47.0	42.9

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0773254
Lab Number : 06218229
Unique Number : 11096426
Test Package : IND 2 (Additional Tests: KF, PQ)
Received : 24 Jun 2024
Tested : 25 Jun 2024
Diagnosed : 25 Jun 2024 - Don Baldrige

ARAUCO FLAKEBOARD - MDF
 985 CORINTH RD
 MONCURE, NC
 US
 Contact: CHRISTOPHER JACKSON
 christopher.jackson@arauco.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)