



**PERFORMANCE
UNDER
PRESSURE**

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	MARGINAL

Area
FIBER
Machine Id
FIBER OCC PULPER
Component
Gearbox
Fluid
ROYAL PURPLE SYNERGY 90/220 (--- GAL)

RECOMMENDATION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RP0037927	RP0030311	RP0030330
Sample Date		Client Info		13 Jun 2024	13 Mar 2024	22 Jan 2024
Machine Age	mths	Client Info		0	0	0
Oil Age	mths	Client Info		0	0	0
Filter Age	mths	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				MARGINAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
Iron	ppm	ASTM D5185m	>200	85	57	60
Chromium	ppm	ASTM D5185m	>15	<1	<1	<1
Nickel	ppm	ASTM D5185m	>15	<1	0	1
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m		0	<1	0
Aluminum	ppm	ASTM D5185m	>25	1	<1	2
Lead	ppm	ASTM D5185m	>100	<1	1	1
Copper	ppm	ASTM D5185m	>200	2	<1	1
Tin	ppm	ASTM D5185m	>25	<1	<1	1
Vanadium	ppm	ASTM D5185m		0	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

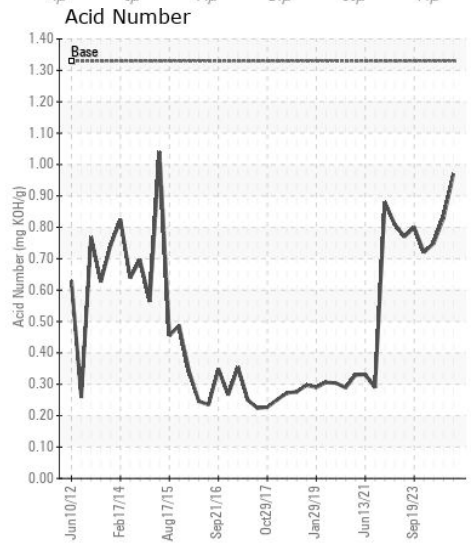
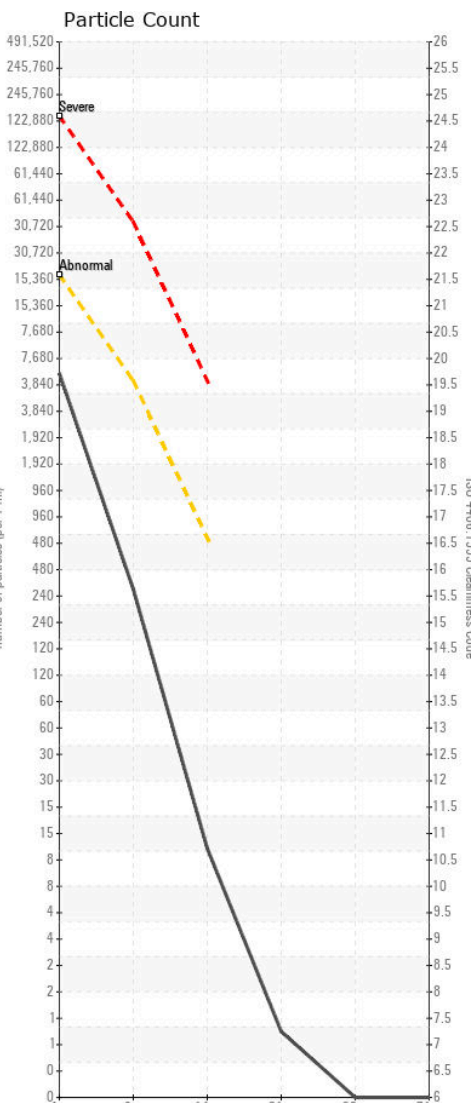
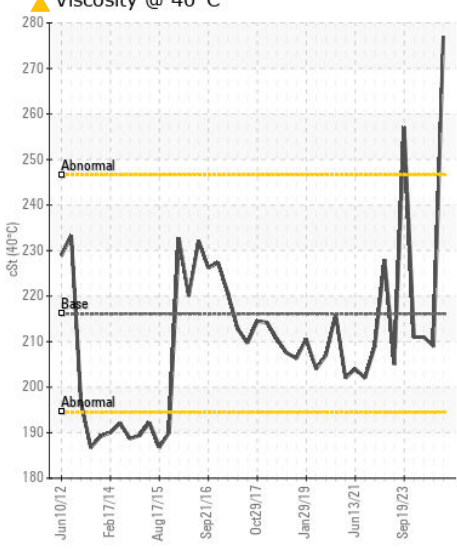
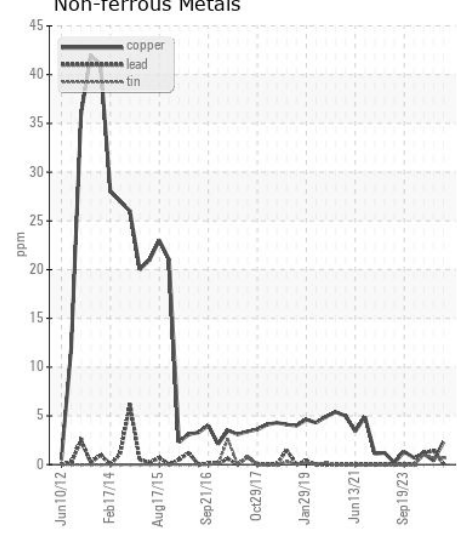
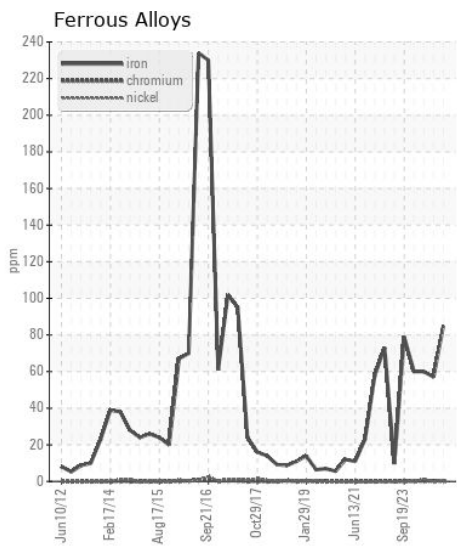
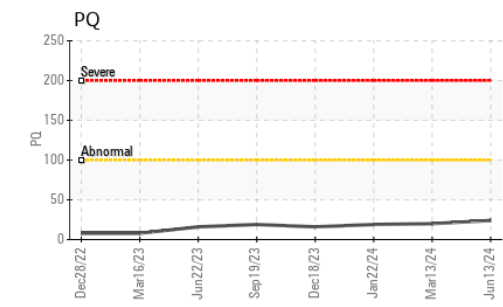
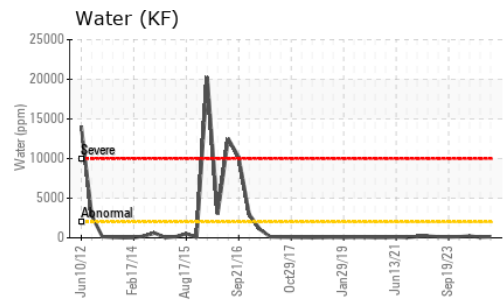
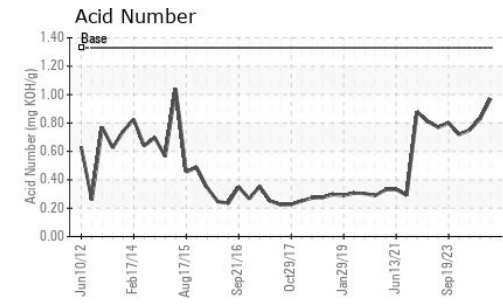
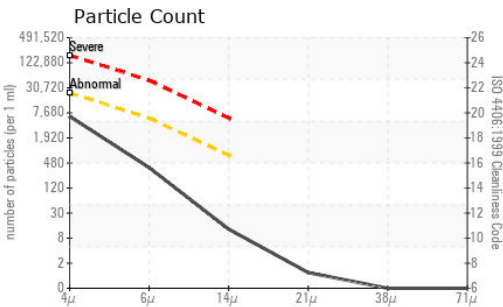
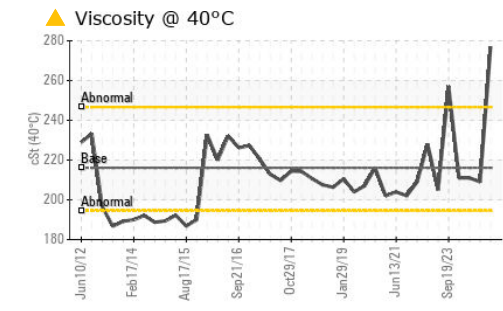
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>50	3	2	2
Potassium	ppm	ASTM D5185m	>20	4	1	1
Water	%	ASTM D6304	>0.2	0.012	0.008	0.022
ppm Water	ppm	ASTM D6304	>2000	124	81	224
Particles >4µm		ASTM D7647	>20000	5518	3702	4339
Particles >6µm		ASTM D7647	>5000	327	372	568
Particles >14µm		ASTM D7647	>640	11	19	48
Particles >21µm		ASTM D7647	>160	1	4	12
Particles >38µm		ASTM D7647	>40	0	0	0
Particles >71µm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	20/16/11	19/16/11	19/16/13
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	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	>0.2	NEG	NEG	NEG

FLUID CONDITION

The oil viscosity is higher than normal. The AN level is acceptable for this fluid.

Sodium	ppm	ASTM D5185m		1	2	0
Boron	ppm	ASTM D5185m		7	11	12
Barium	ppm	ASTM D5185m		0	0	<1
Molybdenum	ppm	ASTM D5185m		<1	<1	1
Manganese	ppm	ASTM D5185m		1	1	2
Magnesium	ppm	ASTM D5185m		0	0	0
Calcium	ppm	ASTM D5185m		0	0	3
Phosphorus	ppm	ASTM D5185m	370	264	264	261
Zinc	ppm	ASTM D5185m		4	5	5
Acid Number (AN)	mg KOH/g	ASTM D8045	1.33	0.97	0.83	0.75
Visc @ 40°C	cSt	ASTM D445	216.1	▲ 277.0	209	211



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RP0037927
Lab Number : 06210140
Unique Number : 11083004
Test Package : IND 2 (Additional Tests: PQ, PrtCount)
Received : 14 Jun 2024
Tested : 20 Jun 2024
Diagnosed : 21 Jun 2024 - Jonathan Hester
 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)

Kimberly-Clark - Mobile - Fiber - BC UNITS
 200 BAYBRIDGE RD
 MOBILE, AL
 US 36610
 Contact: MARK BOSARGE
 Mark.W.Bosarge@kcc.com
 T: (251)330-2221
 F: (251)452-6335