



PERFORMANCE
UNDER
PRESSURE

OIL ANALYSIS REPORT

WEAR	SEVERE
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
BALER PROCESS N CLARIFIER
Component
Gearbox
Fluid
ROYAL PURPLE SYNERGY 90/220 (--- GAL)

RECOMMENDATION

We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RP0020988	RP187390	---
Sample Date		Client Info		02 Aug 2023	30 Nov 2016	---
Machine Age	hrs	Client Info		53089	0	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Not Changd	N/A	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				SEVERE	ABNORMAL	---

WEAR

Gear wear is indicated.

Iron	ppm	ASTM D5185m	>200	▲ 1512	▲ 223	---
Chromium	ppm	ASTM D5185m	>15	▲ 16	2	---
Nickel	ppm	ASTM D5185m	>15	<1	<1	---
Titanium	ppm	ASTM D5185m		0	0	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>25	2	<1	---
Lead	ppm	ASTM D5185m	>100	<1	<1	---
Copper	ppm	ASTM D5185m	>200	9	4	---
Tin	ppm	ASTM D5185m	>25	<1	0	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	LIGHT	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

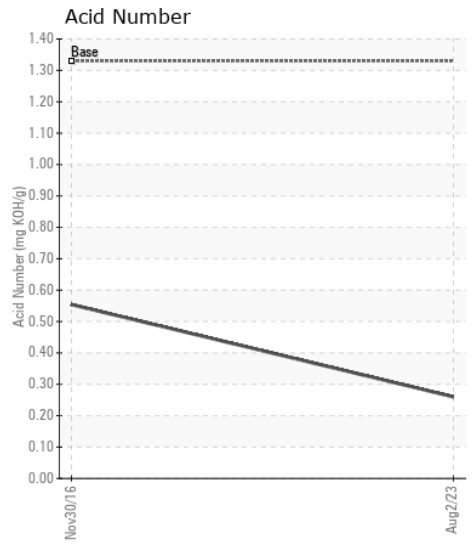
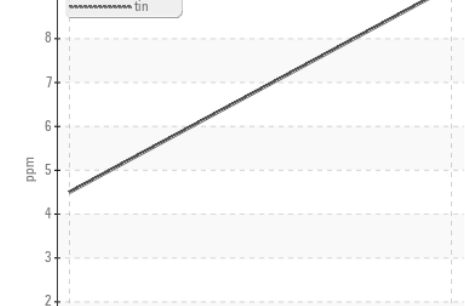
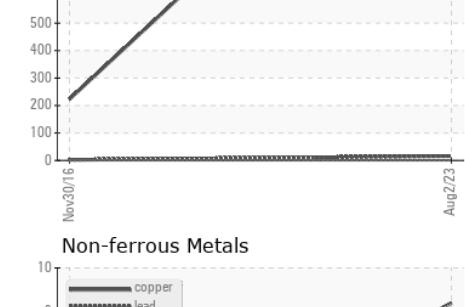
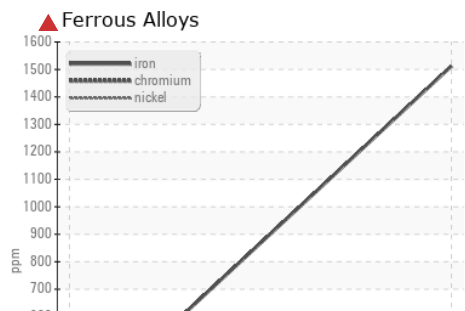
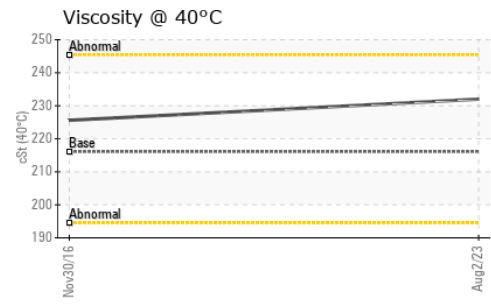
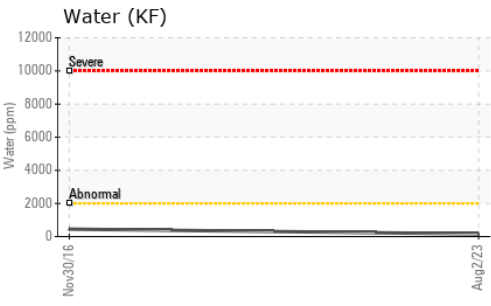
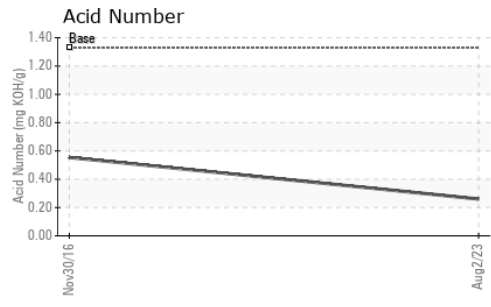
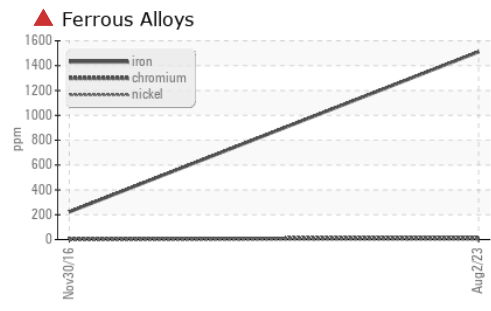
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>50	20	4	---
Potassium	ppm	ASTM D5185m	>20	4	5	---
Water	%	ASTM D6304	>0.2	0.016	0.045	---
ppm Water	ppm	ASTM D6304	>2000	160.2	450	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	▲ MODER	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	0.1%	---

FLUID CONDITION

The AN level is acceptable for this fluid.

Sodium	ppm	ASTM D5185m		<1	<1	---
Boron	ppm	ASTM D5185m		0	<1	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		1	0	---
Manganese	ppm	ASTM D5185m		12	<1	---
Magnesium	ppm	ASTM D5185m		10	3	---
Calcium	ppm	ASTM D5185m		24	<1	---
Phosphorus	ppm	ASTM D5185m	370	107	104	---
Zinc	ppm	ASTM D5185m		0	6	---
Acid Number (AN)	mg KOH/g	ASTM D8045	1.33	0.26	0.554	---
Visc @ 40°C	cSt	ASTM D445	216.1	232	225.6	---



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RP0020988
Lab Number : 05926178
Unique Number : 10606125
Test Package : IND 2
Received : 16 Aug 2023
Tested : 17 Aug 2023
Diagnosed : 17 Aug 2023 - Don Baldrige

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Certificate L2367
 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)