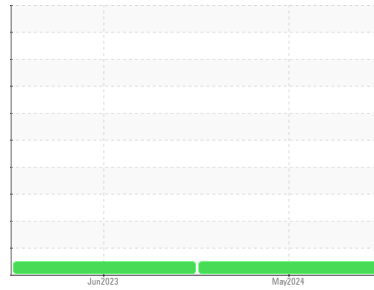




# OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id  
**KOMARCK PRESS**  
 Component  
**Gearbox**  
 Fluid  
**ROYAL PURPLE SYNERGY 90/220 (100 GAL)**

## DIAGNOSIS

**Recommendation**  
 Resample at the next service interval to monitor.

**Wear**  
 All component wear rates are normal.

**Contamination**  
 The water content is negligible. There is no indication of any contamination in the oil.

**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			<b>RP0040008</b>	RP0027043	---
Sample Date	Client Info			<b>27 May 2024</b>	20 Jun 2023	---
Machine Age	hrs	Client Info		<b>2000</b>	0	---
Oil Age	hrs	Client Info		<b>1500</b>	2000	---
Oil Changed	Client Info			<b>N/A</b>	Not Chngd	---
Sample Status				<b>NORMAL</b>	NORMAL	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	<b>12</b>	8	---
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	0	---
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	0	---
Titanium	ppm	ASTM D5185m		<b>0</b>	0	---
Silver	ppm	ASTM D5185m		<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>25	<b>&lt;1</b>	0	---
Lead	ppm	ASTM D5185m	>50	<b>0</b>	0	---
Copper	ppm	ASTM D5185m	>200	<b>&lt;1</b>	1	---
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
Cadmium	ppm	ASTM D5185m		<b>0</b>	<1	---

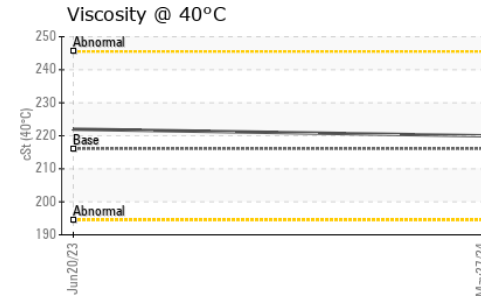
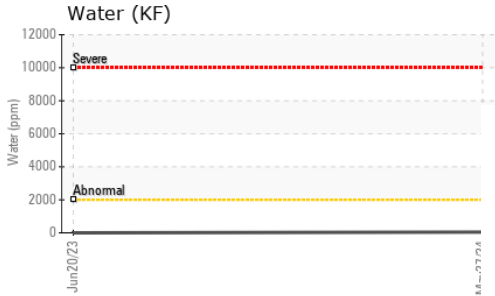
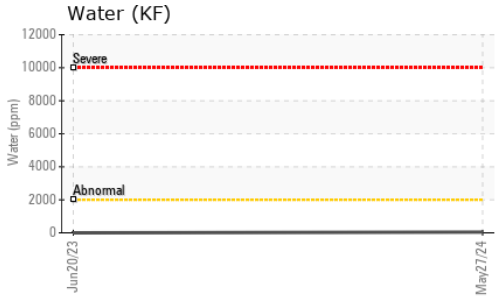
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<b>0</b>	0	---
Barium	ppm	ASTM D5185m		<b>2</b>	0	---
Molybdenum	ppm	ASTM D5185m		<b>0</b>	1	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Magnesium	ppm	ASTM D5185m		<b>2</b>	4	---
Calcium	ppm	ASTM D5185m		<b>4</b>	28	---
Phosphorus	ppm	ASTM D5185m	370	<b>396</b>	389	---
Zinc	ppm	ASTM D5185m		<b>7</b>	12	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	<b>10</b>	7	---
Sodium	ppm	ASTM D5185m		<b>1</b>	0	---
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	2	---
Water	%	ASTM D6304	>0.2	<b>0.004</b>	0.00	---
ppm Water	ppm	ASTM D6304	>2000	<b>48</b>	0.00	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.33	<b>0.96</b>	0.98	---

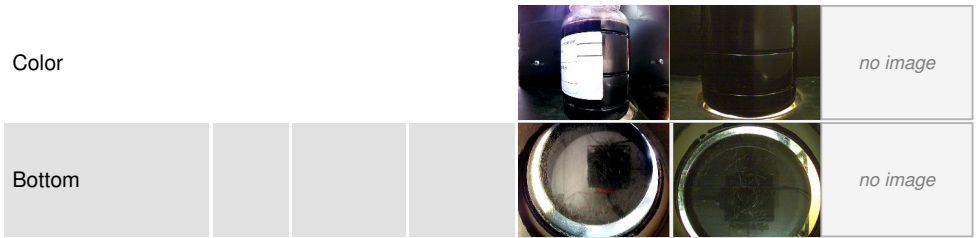
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Precipitate	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	---
Free Water	scalar	*Visual		<b>NEG</b>	NEG	---

# OIL ANALYSIS REPORT

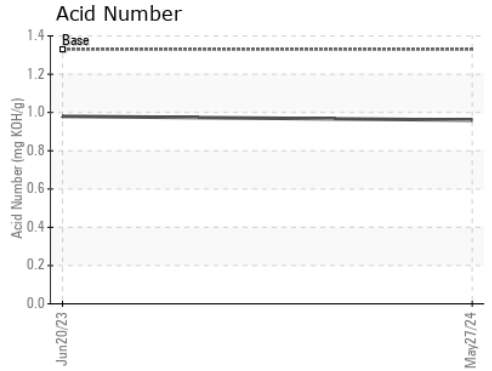
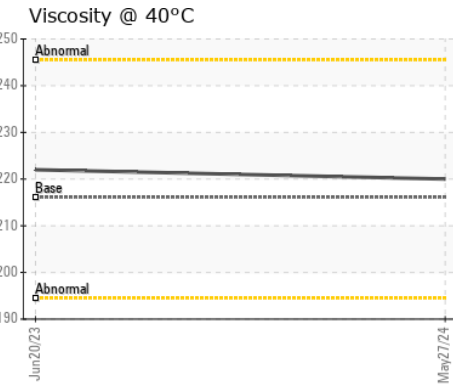
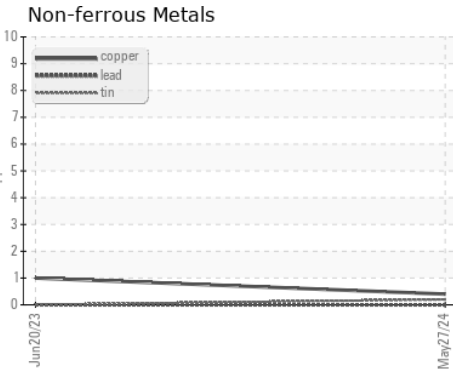
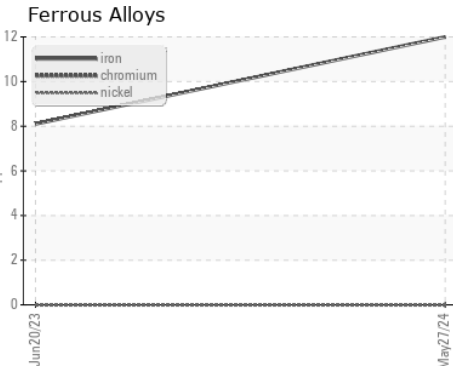


FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	216.1	<b>220</b>	222	---

SAMPLE IMAGES		method	limit/base	current	history1	history2
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## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : RP0040008 **Received** : 30 May 2024  
**Lab Number** : **06195517** **Tested** : 31 May 2024  
**Unique Number** : 11057640 **Diagnosed** : 31 May 2024 - Wes Davis  
**Test Package** : IND 2

**ROYAL OAK CHARCOAL**  
 SALEM, MO  
 US 65560  
 Contact: Service Manager

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)

T:  
F: