



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**SIERRA RB6000 713220**  
 Component  
**Hydraulic System**  
 Fluid  
**BLACK BEAR 46W (300 GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PH0002351</b>	PH0000326	---
Sample Date		Client Info		<b>17 Jun 2024</b>	24 May 2024	---
Machine Age	hrs	Client Info		<b>7922</b>	7749	---
Oil Age	hrs	Client Info		<b>0</b>	0	---
Filter Age	hrs	Client Info		<b>173</b>	0	---
Oil Changed		Client Info		<b>Not Changed</b>	N/A	---
Filter Changed		Client Info		<b>Changed</b>	N/A	---
Sample Status				<b>NORMAL</b>	ABNORMAL	---

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>20	<b>12</b>	14	---
Chromium	ppm	ASTM D5185m	>20	<b>6</b>	6	---
Nickel	ppm	ASTM D5185m	>20	<b>0</b>	0	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Silver	ppm	ASTM D5185m		<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>20	<b>1</b>	<1	---
Lead	ppm	ASTM D5185m	>20	<b>0</b>	0	---
Copper	ppm	ASTM D5185m	>20	<b>11</b>	13	---
Tin	ppm	ASTM D5185m	>20	<b>&lt;1</b>	0	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

## CONTAMINATION

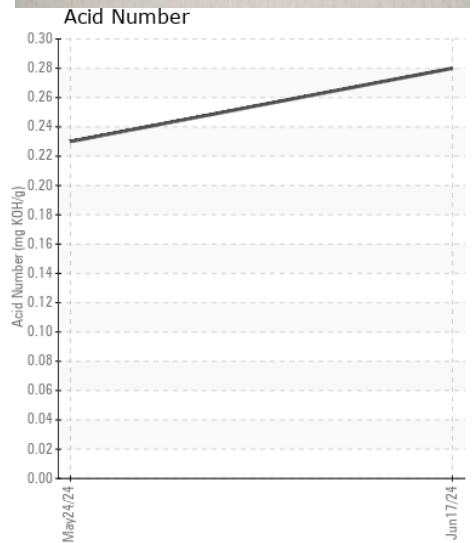
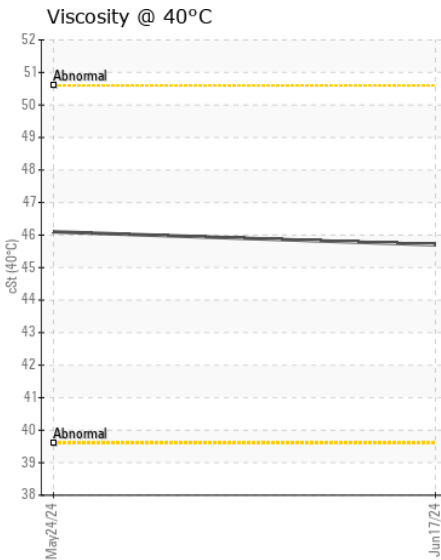
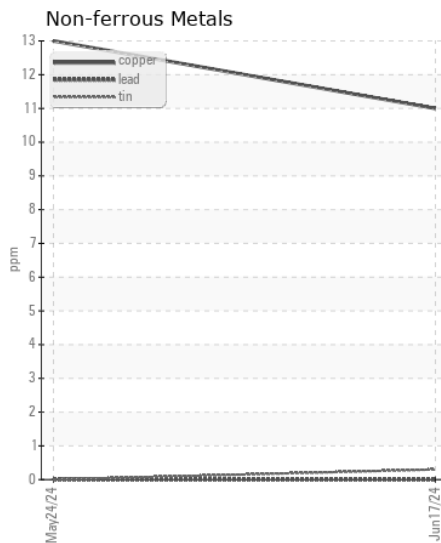
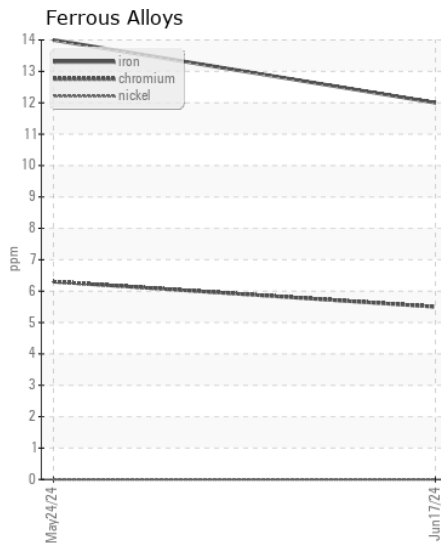
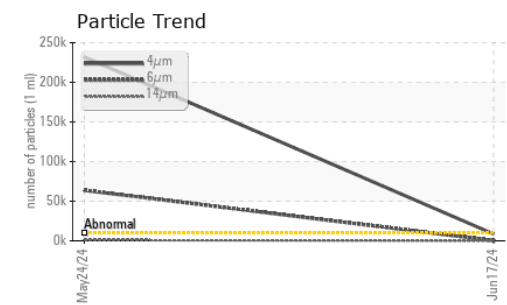
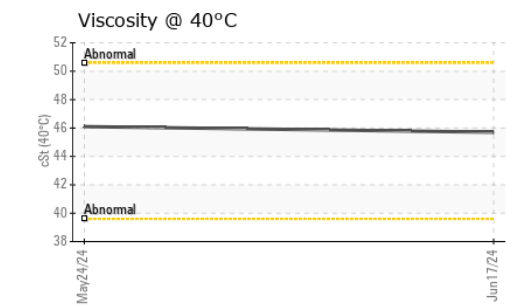
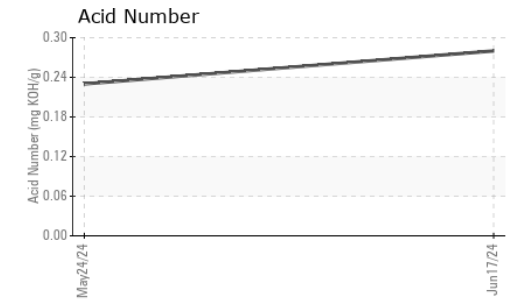
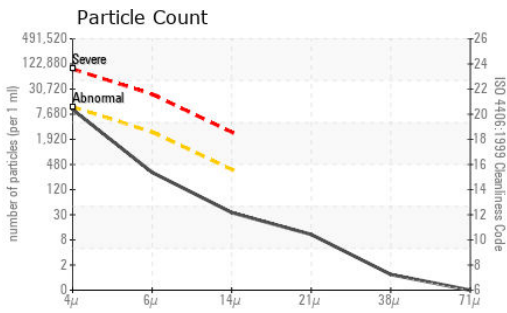
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>15	<b>16</b>	14	---
Potassium	ppm	ASTM D5185m	>20	<b>4</b>	0	---
Water		WC Method	>0.05	<b>NEG</b>	NEG	---
Particles >4µm		ASTM D7647	>10000	<b>8648</b>	▲ 231890	---
Particles >6µm		ASTM D7647	>2500	<b>273</b>	▲ 63800	---
Particles >14µm		ASTM D7647	>320	<b>30</b>	▲ 870	---
Particles >21µm		ASTM D7647	>80	<b>9</b>	73	---
Particles >38µm		ASTM D7647	>20	<b>1</b>	1	---
Particles >71µm		ASTM D7647	>4	<b>0</b>	0	---
Oil Cleanliness		ISO 4406 (c)	>20/18/15	<b>20/15/12</b>	▲ 25/23/17	---
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	>0.05	<b>NEG</b>	NEG	---

## FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>3</b>	2	---
Boron	ppm	ASTM D5185m		<b>0</b>	0	---
Barium	ppm	ASTM D5185m		<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m		<b>0</b>	0	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Magnesium	ppm	ASTM D5185m		<b>5</b>	2	---
Calcium	ppm	ASTM D5185m		<b>75</b>	79	---
Phosphorus	ppm	ASTM D5185m		<b>357</b>	351	---
Zinc	ppm	ASTM D5185m		<b>441</b>	422	---
Sulfur	ppm	ASTM D5185m		<b>1167</b>	1127	---
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.28</b>	0.23	---
Visc @ 40°C	cSt	ASTM D445		<b>45.7</b>	46.1	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PH0002351 **Received** : 20 Jun 2024  
**Lab Number** : 06216295 **Tested** : 24 Jun 2024  
**Unique Number** : 11089159 **Diagnosed** : 24 Jun 2024 - Jonathan Hester  
**Test Package** : PLANT ( Additional Tests: PrtFilter )

**NJC SCRAP METAL**  
 34 MOFFITT BLVD  
 BAY SHORE, NY  
 US 11706  
 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: