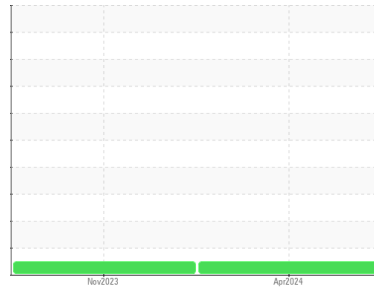




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**South Molding**

Machine Id  
**Press 6**

Component  
**6 Gearbox**

Fluid  
**GEAR OIL ISO 320 (--- GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

### Wear

All component wear rates are normal.

### Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible. The system and fluid cleanliness is acceptable.

### 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>SBP0007439</b>	SBP0005194	---
Sample Date	Client Info			<b>18 Apr 2024</b>	09 Nov 2023	---
Machine Age	days	Client Info		<b>19</b>	19	---
Oil Age	days	Client Info		<b>19</b>	0	---
Oil Changed	Client Info			<b>N/A</b>	N/A	---
Sample Status				<b>NORMAL</b>	NORMAL	---

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		<b>15</b>	13	---
Iron	ppm	ASTM D5185m	>200	<b>9</b>	5	---
Chromium	ppm	ASTM D5185m	>15	<b>&lt;1</b>	0	---
Nickel	ppm	ASTM D5185m	>15	<b>&lt;1</b>	0	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Silver	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Aluminum	ppm	ASTM D5185m	>25	<b>3</b>	0	---
Lead	ppm	ASTM D5185m	>100	<b>&lt;1</b>	0	---
Copper	ppm	ASTM D5185m	>200	<b>&lt;1</b>	0	---
Tin	ppm	ASTM D5185m	>25	<b>&lt;1</b>	0	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Cadmium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	<b>79</b>	75	---
Barium	ppm	ASTM D5185m	15	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m	15	<b>&lt;1</b>	0	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Magnesium	ppm	ASTM D5185m	50	<b>&lt;1</b>	0	---
Calcium	ppm	ASTM D5185m	50	<b>0</b>	<1	---
Phosphorus	ppm	ASTM D5185m	350	<b>266</b>	284	---
Zinc	ppm	ASTM D5185m	100	<b>0</b>	0	---
Sulfur	ppm	ASTM D5185m	12500	<b>7151</b>	6842	---

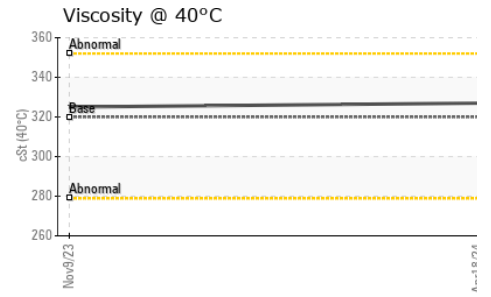
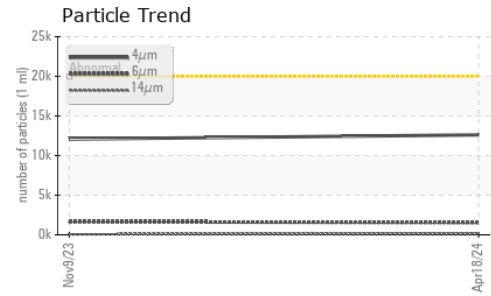
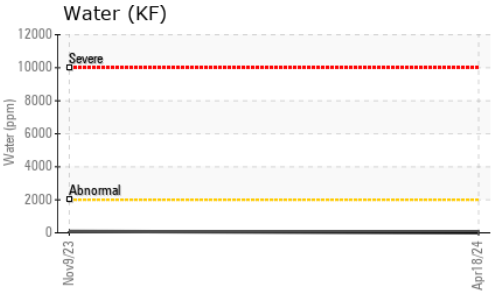
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	<b>3</b>	2	---
Sodium	ppm	ASTM D5185m		<b>0</b>	0	---
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	0	---
Water	%	ASTM D6304	>0.2	<b>0.001</b>	0.008	---
ppm Water	ppm	ASTM D6304	>2000	<b>1</b>	87.8	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	<b>12616</b>	12079	---
Particles >6µm		ASTM D7647	>5000	<b>1560</b>	1647	---
Particles >14µm		ASTM D7647	>640	<b>154</b>	63	---
Particles >21µm		ASTM D7647	>160	<b>77</b>	18	---
Particles >38µm		ASTM D7647	>40	<b>6</b>	1	---
Particles >71µm		ASTM D7647	>10	<b>1</b>	0	---
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<b>21/18/14</b>	21/18/13	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.85	<b>0.49</b>	0.39	---



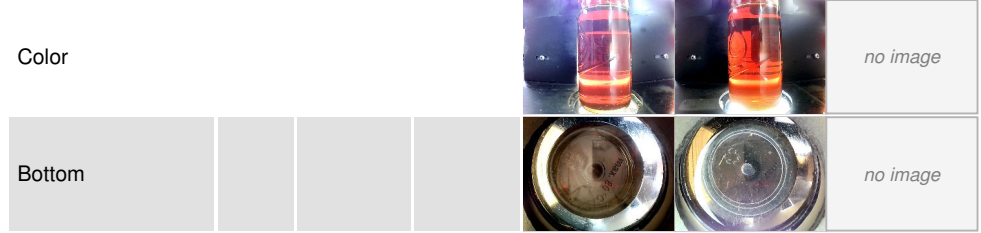
# OIL ANALYSIS REPORT



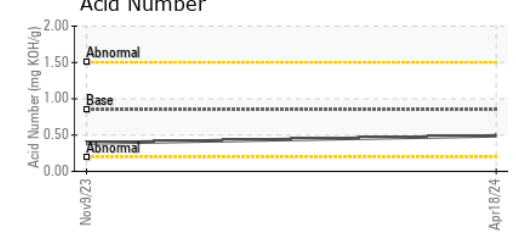
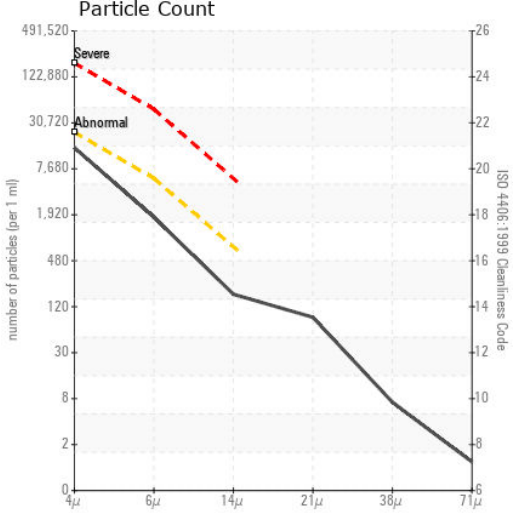
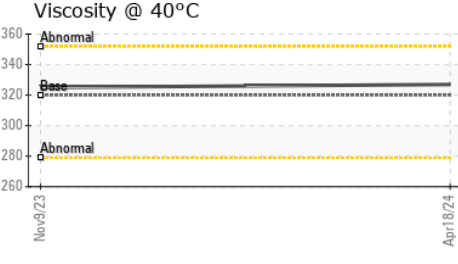
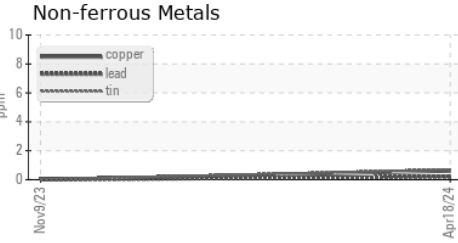
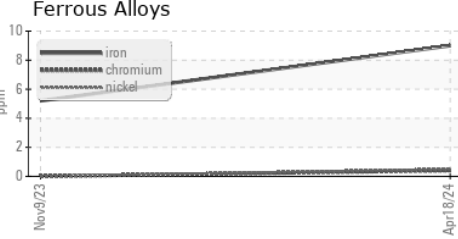
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 320	<b>327</b>	325	---

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : SBP0007439      **Received** : 22 Apr 2024  
**Lab Number** : **06156975**      **Tested** : 23 Apr 2024  
**Unique Number** : 10992398      **Diagnosed** : 23 Apr 2024 - Wes Davis  
**Test Package** : PLANT

**BECTON DICKINSON BROKEN BOW**  
 150 S 1ST AVE  
 BROKEN BOW, NE  
 US 68822  
 Contact: JUSTIN HURLBURT  
 Justin\_W\_Hurlburt@bd.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)