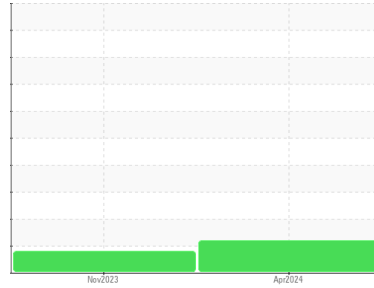




OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Area
South Molding

Machine Id
Press 4

Component
4 Gearbox

Fluid
GEAR OIL ISO 320 (--- GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. We recommend an early resample to monitor this condition. 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

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The water content is negligible.

Fluid Condition

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		SBP0007438	SBP0005193	---
Sample Date	Client Info		18 Apr 2024	09 Nov 2023	---
Machine Age	days	Client Info	365	8	---
Oil Age	days	Client Info	365	0	---
Oil Changed	Client Info		N/A	N/A	---
Sample Status			ABNORMAL	ATTENTION	---

WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184		19	11	---
Iron	ppm	ASTM D5185m >200	10	4	---
Chromium	ppm	ASTM D5185m >15	<1	0	---
Nickel	ppm	ASTM D5185m >15	<1	0	---
Titanium	ppm	ASTM D5185m	<1	0	---
Silver	ppm	ASTM D5185m	<1	0	---
Aluminum	ppm	ASTM D5185m >25	3	0	---
Lead	ppm	ASTM D5185m >100	<1	0	---
Copper	ppm	ASTM D5185m >200	1	<1	---
Tin	ppm	ASTM D5185m >25	<1	0	---
Vanadium	ppm	ASTM D5185m	<1	0	---
Cadmium	ppm	ASTM D5185m	<1	0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 50	34	33	---
Barium	ppm	ASTM D5185m 15	0	0	---
Molybdenum	ppm	ASTM D5185m 15	<1	0	---
Manganese	ppm	ASTM D5185m	<1	0	---
Magnesium	ppm	ASTM D5185m 50	<1	0	---
Calcium	ppm	ASTM D5185m 50	0	2	---
Phosphorus	ppm	ASTM D5185m 350	311	349	---
Zinc	ppm	ASTM D5185m 100	1	0	---
Sulfur	ppm	ASTM D5185m 12500	10665	10317	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >50	6	6	---
Sodium	ppm	ASTM D5185m	0	0	---
Potassium	ppm	ASTM D5185m >20	2	0	---
Water	%	ASTM D6304 >0.2	0.00	0.012	---
ppm Water	ppm	ASTM D6304 >2000	0	128.9	---

FLUID CLEANLINESS

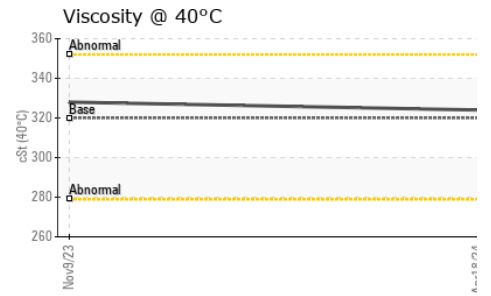
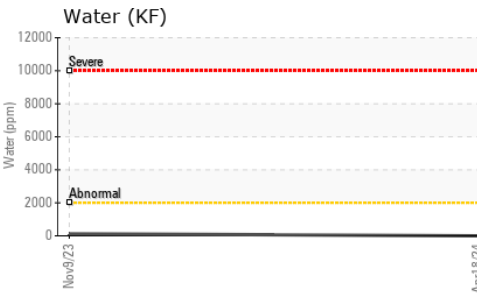
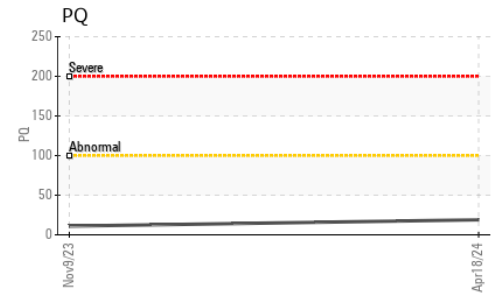
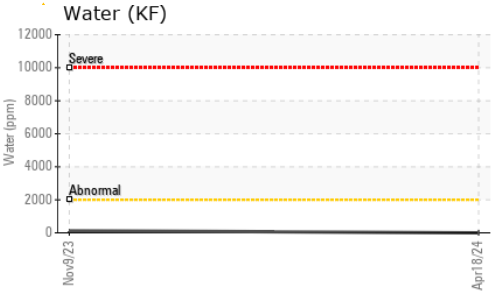
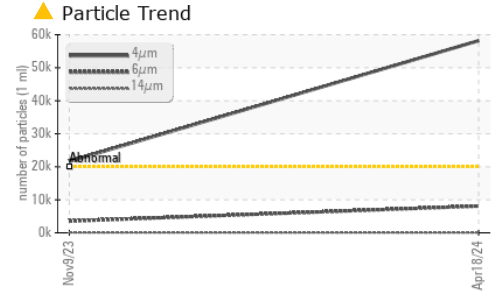
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>20000	▲ 58193	● 21613	---
Particles >6µm	ASTM D7647	>5000	● 8085	3554	---
Particles >14µm	ASTM D7647	>640	80	103	---
Particles >21µm	ASTM D7647	>160	11	24	---
Particles >38µm	ASTM D7647	>40	0	1	---
Particles >71µm	ASTM D7647	>10	0	0	---
Oil Cleanliness	ISO 4406 (c)	>21/19/16	▲ 23/20/13	● 22/19/14	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.85	0.81	0.69	---



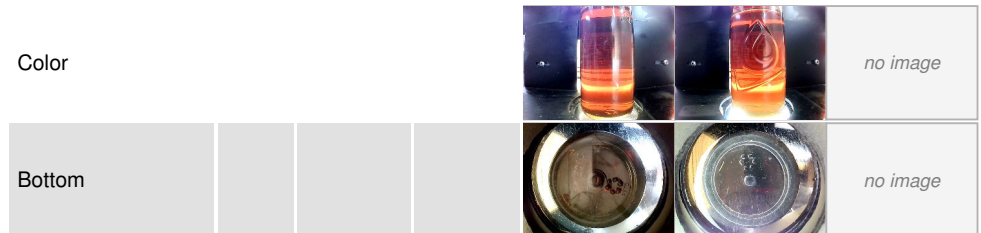
OIL ANALYSIS REPORT



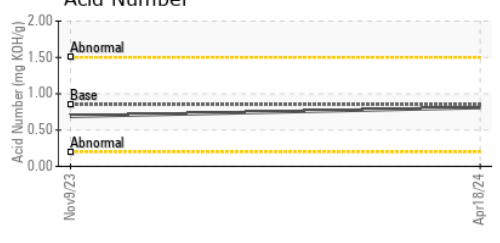
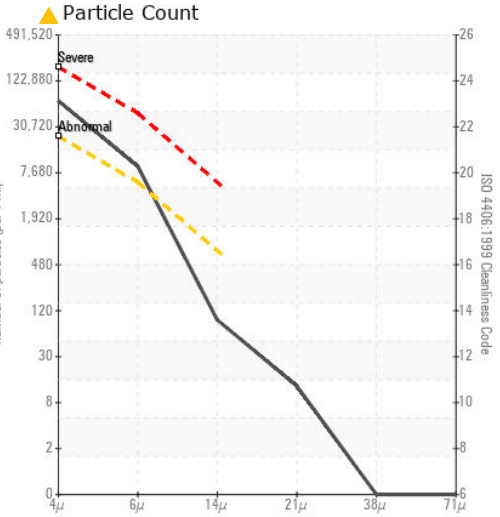
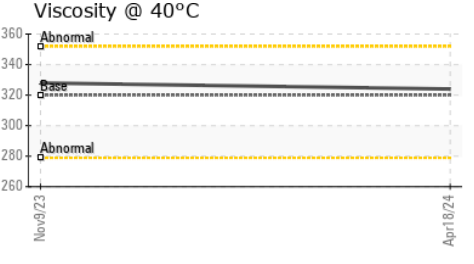
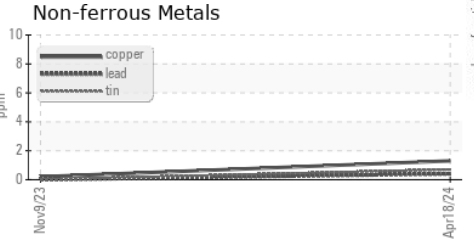
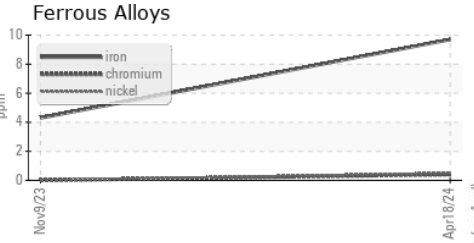
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*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	324	328

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : SBP0007438 **Received** : 22 Apr 2024
Lab Number : **06156976** **Tested** : 23 Apr 2024
Unique Number : 10992399 **Diagnosed** : 23 Apr 2024 - Wes Davis
Test Package : PLANT

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 150 S 1ST AVE
 BROKEN BOW, NE
 US 68822
 Contact: JUSTIN HURLBURT
 Justin_W_Hurlburt@bd.com
 T:
 F:

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)