



PROBLEM SUMMARY

Sample Rating Trend

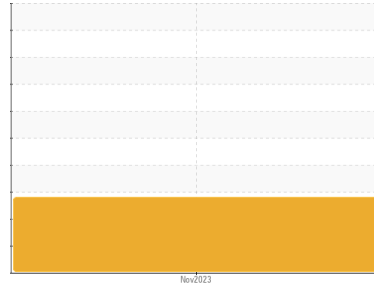
WATER



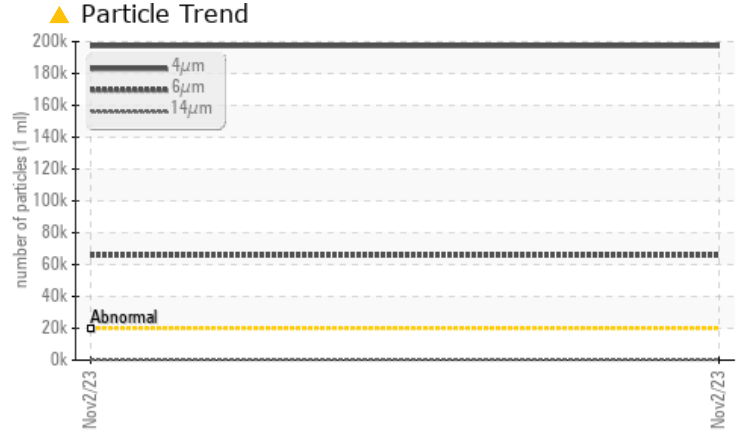
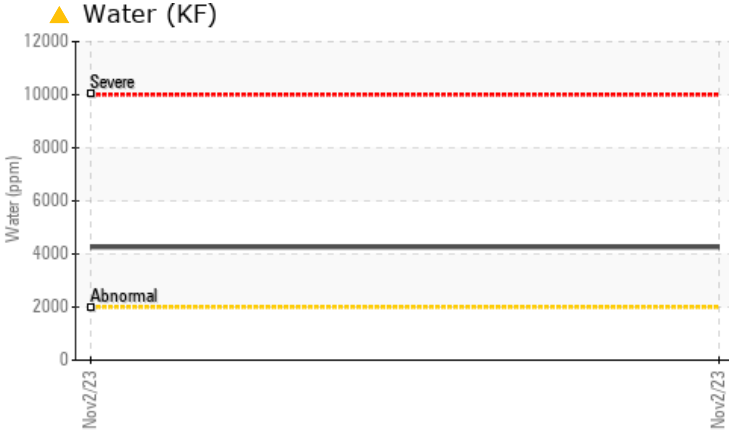
Machine Id
SKINNER 16

Component
Bottom Gearbox

Fluid
GEAR OIL (PAG) ISO 460 (--- GAL)



COMPONENT CONDITION SUMMARY



RECOMMENDATION

Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	---	---
Water	%	ASTM D6304	>0.2	▲ 0.426	---	---
ppm Water	ppm	ASTM D6304	>2000	▲ 4262.2	---	---
Particles >4µm		ASTM D7647	>20000	▲ 197317	---	---
Particles >6µm		ASTM D7647	>5000	▲ 65737	---	---
Oil Cleanliness		ISO 4406 (c)	>21/19/16	▲ 25/23/16	---	---

Customer Id: TYSWAV
 Sample No.: USP242308
 Lab Number: 06008345
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Doug Bogart +1 (800)237-1369 x4016
dougb@wearcheckusa.com

To change component or sample information:
 Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

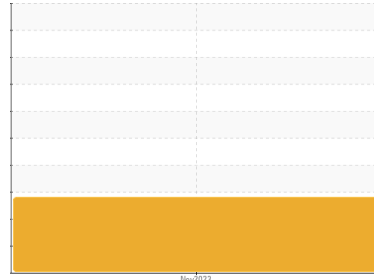
HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Sample Rating Trend

WATER



Machine Id
SKINNER 16

Component
Bottom Gearbox

Fluid
GEAR OIL (PAG) ISO 460 (--- GAL)

DIAGNOSIS

▲ Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

▲ Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil. There is a light concentration of water present in the oil.

Fluid Condition

The AN level is acceptable for this fluid.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		USP242308	---	---
Sample Date	Client Info		02 Nov 2023	---	---
Machine Age	hrs	Client Info	0	---	---
Oil Age	hrs	Client Info	0	---	---
Oil Changed	Client Info		N/A	---	---
Sample Status			ABNORMAL	---	---

WEAR METALS

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

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	0	---
Barium	ppm	ASTM D5185m	5	0	---
Molybdenum	ppm	ASTM D5185m	5	0	---
Manganese	ppm	ASTM D5185m		<1	---
Magnesium	ppm	ASTM D5185m	5	<1	---
Calcium	ppm	ASTM D5185m	5	0	---
Phosphorus	ppm	ASTM D5185m	775	449	---
Zinc	ppm	ASTM D5185m	5	6	---
Sulfur	ppm	ASTM D5185m	2000	786	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	4	---
Sodium	ppm	ASTM D5185m		0	---
Potassium	ppm	ASTM D5185m	>20	1	---
Water	%	ASTM D6304	>0.2	▲ 0.426	---
ppm Water	ppm	ASTM D6304	>2000	▲ 4262.2	---

FLUID CLEANLINESS

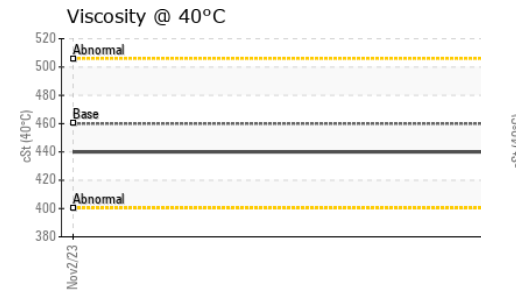
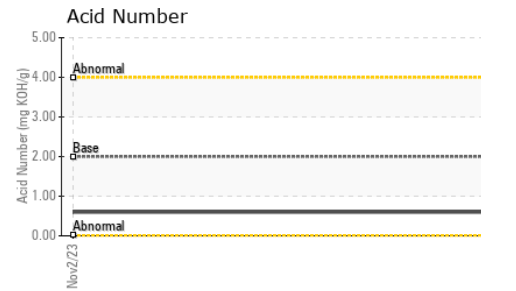
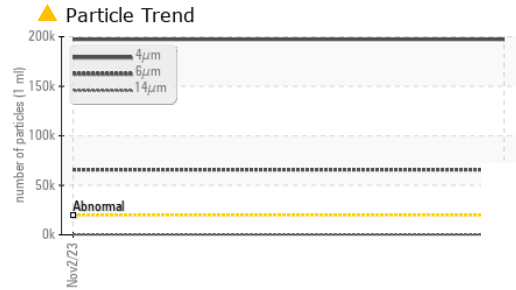
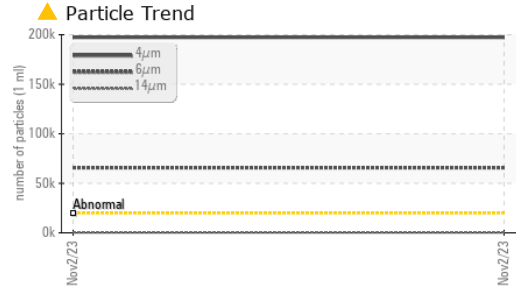
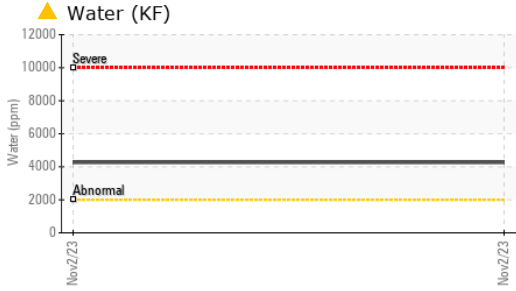
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>20000	▲ 197317	---	---
Particles >6µm	ASTM D7647	>5000	▲ 65737	---	---
Particles >14µm	ASTM D7647	>640	400	---	---
Particles >21µm	ASTM D7647	>160	61	---	---
Particles >38µm	ASTM D7647	>40	5	---	---
Particles >71µm	ASTM D7647	>10	2	---	---
Oil Cleanliness	ISO 4406 (c)	>21/19/16	▲ 25/23/16	---	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	2.00	0.60	---



OIL ANALYSIS REPORT



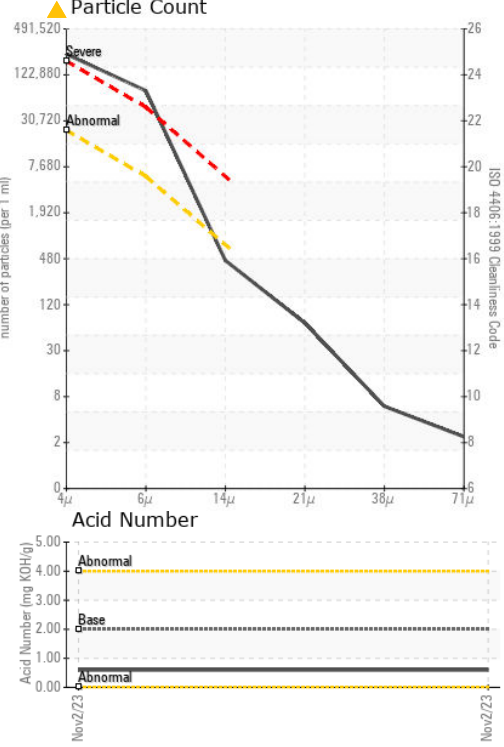
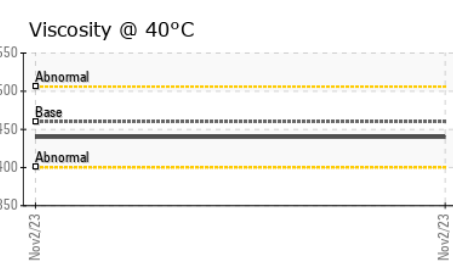
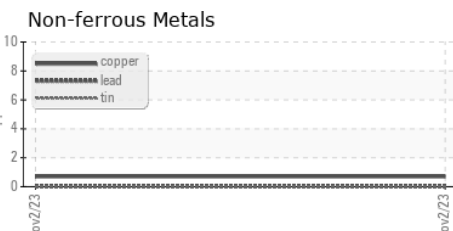
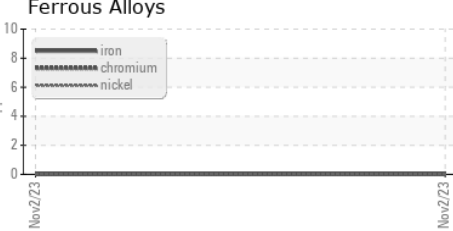
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*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	460	440	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color		no image	no image
Bottom		no image	no image

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : USP242308 **Received** : 15 Nov 2023
Lab Number : 06008345 **Diagnosed** : 16 Nov 2023
Unique Number : 10742107 **Diagnostician** : Doug Bogart
Test Package : IND 2

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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)