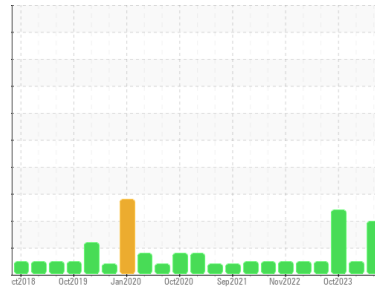




OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Area

North Plant-Fermentation

Machine Id

AG1760H

Component

Gearbox

Fluid

ROYAL PURPLE SYNFILM GT 320 (20 GAL)

DIAGNOSIS

Recommendation

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a high amount of particulates present 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	WC0941391	WC0850045	WC0850021
Sample Date	Client Info	24 May 2024	24 Jan 2024	16 Oct 2023
Machine Age	hrs	0	0	0
Oil Age	hrs	0	0	0
Oil Changed	Client Info	N/A	N/A	N/A
Sample Status		ABNORMAL	NORMAL	ABNORMAL

WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >200	14	0	4
Chromium	ppm	ASTM D5185m >10	<1	<1	0
Nickel	ppm	ASTM D5185m >10	<1	0	0
Titanium	ppm	ASTM D5185m	<1	0	0
Silver	ppm	ASTM D5185m	0	0	0
Aluminum	ppm	ASTM D5185m >25	5	2	0
Lead	ppm	ASTM D5185m >50	<1	0	0
Copper	ppm	ASTM D5185m >200	18	3	3
Tin	ppm	ASTM D5185m >10	2	0	0
Vanadium	ppm	ASTM D5185m	<1	0	0
Cadmium	ppm	ASTM D5185m	<1	0	0

ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	0	0
Barium	ppm	ASTM D5185m	<1	0	0
Molybdenum	ppm	ASTM D5185m	<1	0	0
Manganese	ppm	ASTM D5185m	<1	0	0
Magnesium	ppm	ASTM D5185m 90	4	<1	0
Calcium	ppm	ASTM D5185m	8	<1	0
Phosphorus	ppm	ASTM D5185m	91	10	28
Zinc	ppm	ASTM D5185m	18	0	0
Sulfur	ppm	ASTM D5185m	12883	19249	19301

CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >50	5	22	27
Sodium	ppm	ASTM D5185m	12	0	0
Potassium	ppm	ASTM D5185m >20	4	<1	0
Water	%	ASTM D6304 >0.2	0.001	0.004	0.005
ppm Water	ppm	ASTM D6304 >2000	14	41	52.7

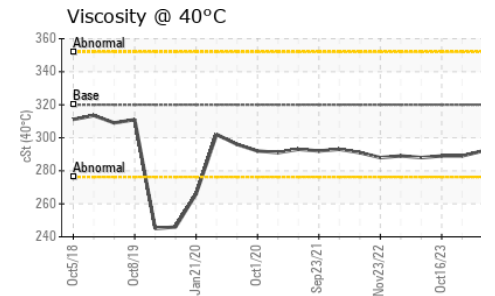
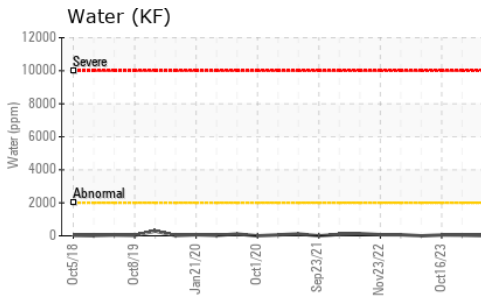
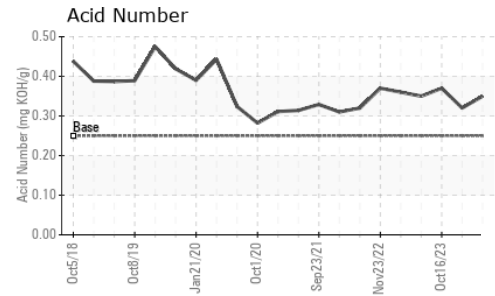
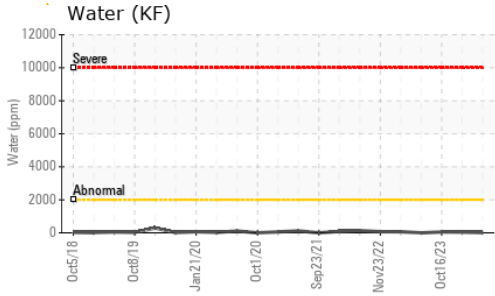
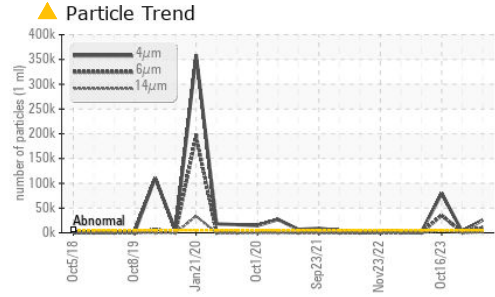
FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >5000	▲ 25709	2662	▲ 79586
Particles >6µm	ASTM D7647 >1300	▲ 10458	572	▲ 35372
Particles >14µm	ASTM D7647 >160	▲ 1173	33	▲ 4125
Particles >21µm	ASTM D7647 >40	▲ 267	8	▲ 1241
Particles >38µm	ASTM D7647 >10	10	1	▲ 60
Particles >71µm	ASTM D7647 >3	1	1	2
Oil Cleanliness	ISO 4406 (c) >19/17/14	▲ 22/21/17	19/16/12	▲ 23/22/19

FLUID DEGRADATION

method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045 0.25	0.35	0.32	0.37

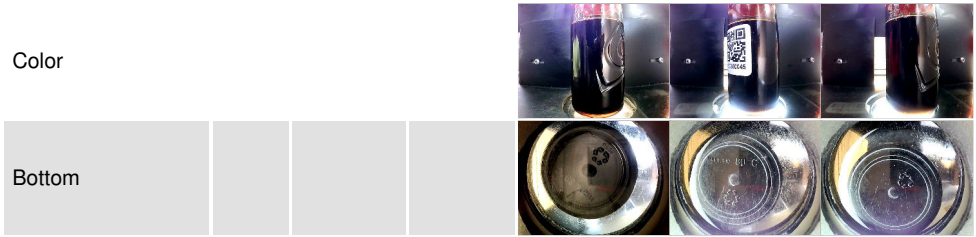
OIL ANALYSIS REPORT



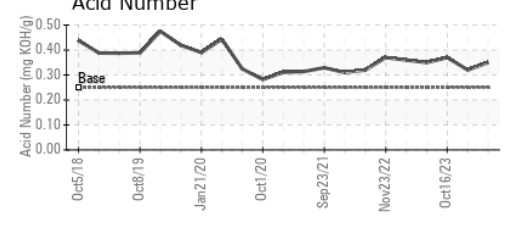
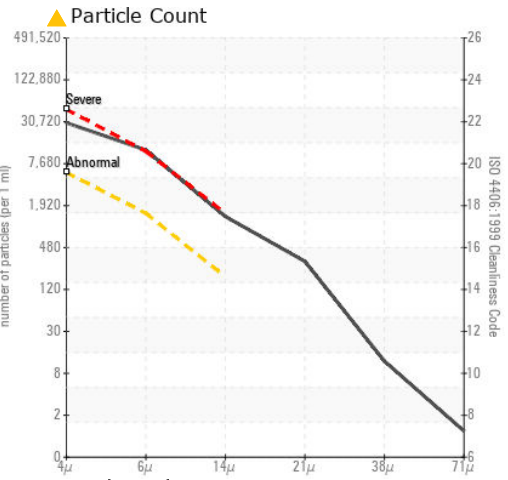
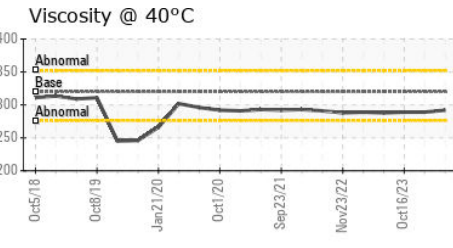
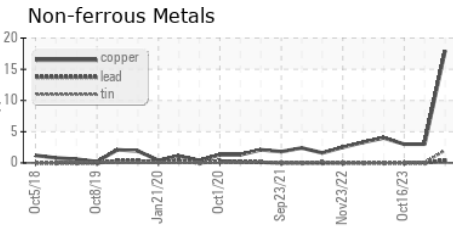
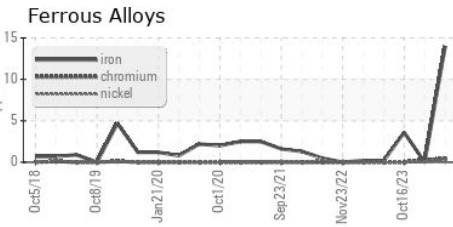
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 320	292	289	289

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0941391 **Received** : 30 May 2024
Lab Number : 06195451 **Tested** : 31 May 2024
Unique Number : 11057574 **Diagnosed** : 31 May 2024 - Angela Borella
Test Package : PLANT

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 1116 HWY 137
 EDDYVILLE, IA
 US 52553
 Contact: Alan Brittain
 brittaina@ajjusa.com
 T: (641)295-0086
 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)