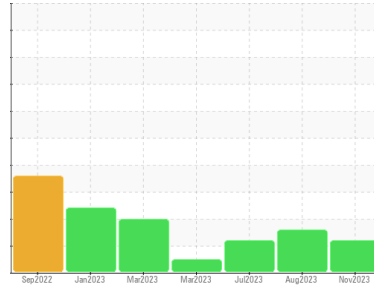




PROBLEM SUMMARY

Sample Rating Trend



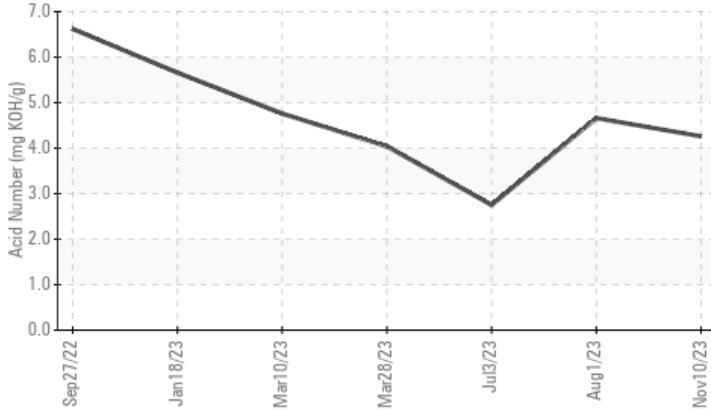
DEGRADATION



Area
HOTLINE/PUSHER FURNACES
 Machine Id
#1 PUSHER AUX HYD 1406-A11-0090
 Component
Hydraulic System
 Fluid
BENZ OIL ULTRA GUARD 552 (--- GAL)

COMPONENT CONDITION SUMMARY

▲ Acid Number



RECOMMENDATION

Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status		ATTENTION	ABNORMAL	ATTENTION
Acid Number (AN)	mg KOH/g ASTM D8045	▲ 4.26	▲ 4.66	▲ 2.75

Customer Id: CONMUSAL
 Sample No.: KFS0004826
 Lab Number: 06007643
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Don Baldrige +1
don.b505@comcast.net

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

01 Aug 2023 Diag: Angela Borella

DEGRADATION



Resample at the next service interval to monitor. Please submit a sample of the new (unused) oil to establish a baseline. We were unable to perform a particle count due to a high concentration of particles present in this sample. All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. The AN level is at the top-end of the recommended limit.

view report



03 Jul 2023 Diag: Doug Bogart

DEGRADATION



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is at the top-end of the recommended limit.

view report



28 Mar 2023 Diag: Don Baldrige

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

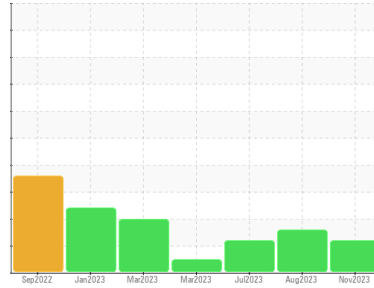
view report





OIL ANALYSIS REPORT

Sample Rating Trend



DEGRADATION



Area
HOTLINE/PUSHER FURNACES
 Machine Id
#1 PUSHER AUX HYD 1406-A11-0090
 Component
Hydraulic System
 Fluid
BENZ OIL ULTRA GUARD 552 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

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

Fluid Condition

The AN level is at the top-end of the recommended limit.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	KFS0004826	KFS0003810	KFS0003781
Sample Date	Client Info	10 Nov 2023	01 Aug 2023	03 Jul 2023
Machine Age	hrs	Client Info	0	0
Oil Age	hrs	Client Info	0	0
Oil Changed	Client Info	N/A	N/A	N/A
Sample Status		ATTENTION	ABNORMAL	ATTENTION

WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >20	2	<1	3
Chromium	ppm	ASTM D5185m >20	0	<1	0
Nickel	ppm	ASTM D5185m >20	0	0	0
Titanium	ppm	ASTM D5185m	0	<1	0
Silver	ppm	ASTM D5185m	0	0	0
Aluminum	ppm	ASTM D5185m >20	5	<1	6
Lead	ppm	ASTM D5185m >20	0	0	0
Copper	ppm	ASTM D5185m >20	1	1	1
Tin	ppm	ASTM D5185m >20	5	4	<1
Vanadium	ppm	ASTM D5185m	0	<1	<1
Cadmium	ppm	ASTM D5185m	0	<1	0

ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	0	0
Barium	ppm	ASTM D5185m	0	<1	0
Molybdenum	ppm	ASTM D5185m	0	0	0
Manganese	ppm	ASTM D5185m	0	<1	0
Magnesium	ppm	ASTM D5185m	0	7	<1
Calcium	ppm	ASTM D5185m	1	1	0
Phosphorus	ppm	ASTM D5185m	345	312	362
Zinc	ppm	ASTM D5185m	8	20	0
Sulfur	ppm	ASTM D5185m	1028	1202	1298

CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >15	1	2	2
Sodium	ppm	ASTM D5185m	<1	1	0
Potassium	ppm	ASTM D5185m >20	0	1	0

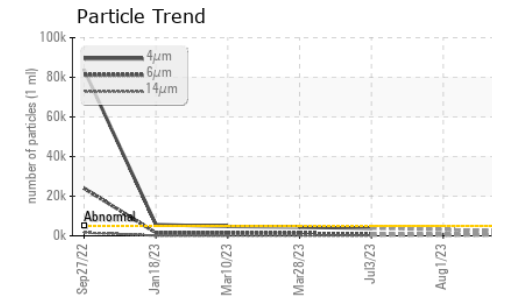
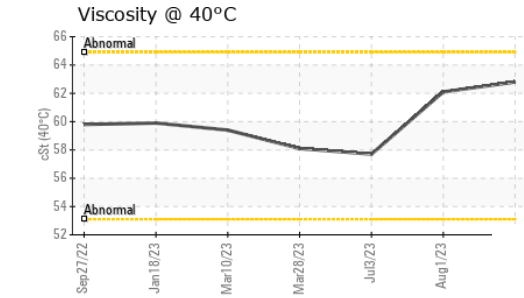
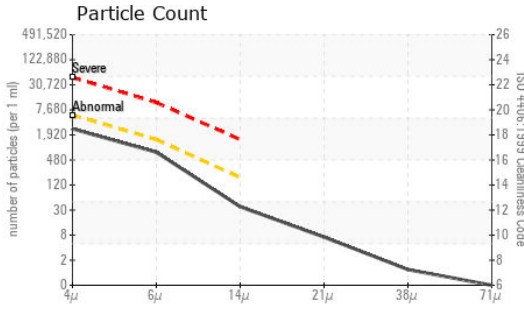
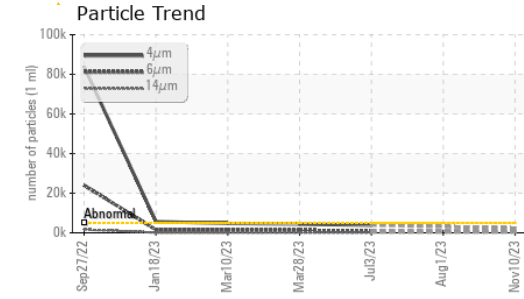
FLUID CLEANLINESS

method	limit/base	current	history1	history2	
Particles >4µm	ASTM D7647	>5000	2349	---	3841
Particles >6µm	ASTM D7647	>1300	647	---	941
Particles >14µm	ASTM D7647	>160	32	---	39
Particles >21µm	ASTM D7647	>40	6	---	9
Particles >38µm	ASTM D7647	>10	1	---	0
Particles >71µm	ASTM D7647	>3	0	---	0
Oil Cleanliness	ISO 4406 (c)	>19/17/14	18/17/12	---	19/17/12

FLUID DEGRADATION

method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045	▲ 4.26	▲ 4.66	▲ 2.75

OIL ANALYSIS REPORT



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KFS0004826 **Received** : 14 Nov 2023
Lab Number : 06007643 **Diagnosed** : 16 Nov 2023
Unique Number : 10741405 **Diagnostician** : Don Baldrige
Test Package : IND 2

To discuss this sample report, contact Customer Service at 1-800-237-1369.

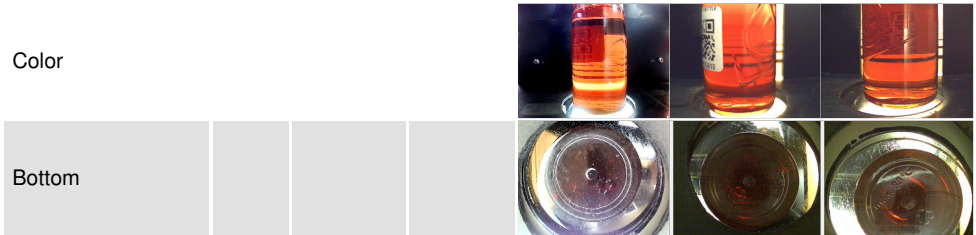
* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

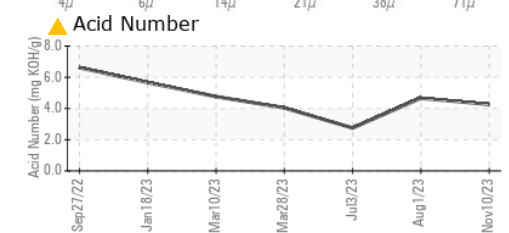
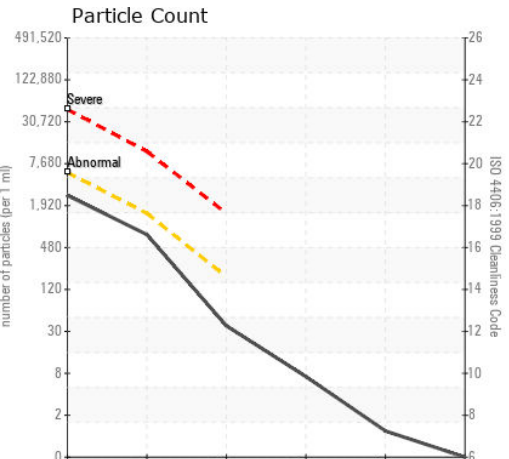
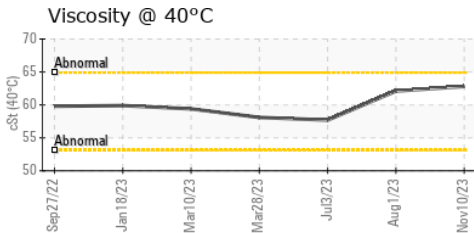
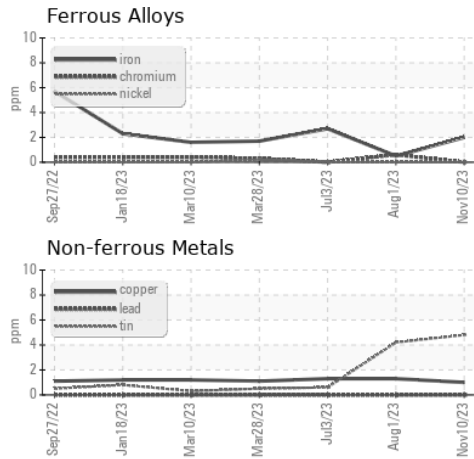
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	▲ MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	62.8	62.1	57.7

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



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