

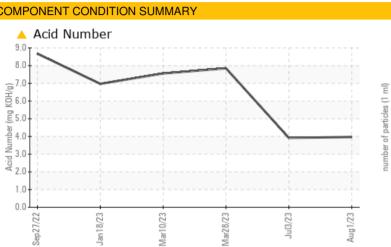
PROBLEM SUMMARY

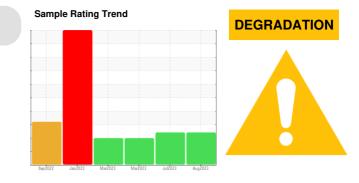
HOTLINE/PUSHER FURNACES #1 PUSHER MAIN HYD SYS 1406-A10-0190 Component

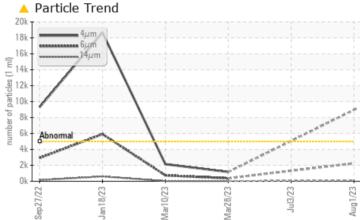
Hydraulic System

BENZ OIL ULTRA GUARD 552 (--- GAL)

COMPONENT CONDITION SUMMARY







RECOMMENDATION

Resample at the next service interval to monitor. Please submit a sample of the new (unused) oil to establish a baseline.

PROBLEMATIC TEST RESULTS							
Sample Status				ATTENTION	ABNORMAL	ATTENTION	
Particles >4µm		ASTM D7647	>5000	<u> </u>		1164	
Particles >6µm		ASTM D7647	>1300	🔺 2255		374	
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u> </u>		17/16/12	
Acid Number (AN)	mg KOH/g	ASTM D8045		A 3.97	a 3.92	A 7.85	

Customer Id: CONMUSAL Sample No.: KFS0003809 Lab Number: 05923427 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Angela Borella +1 800-237-1369 angela.borella@wearcheckusa.com

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

RECOMMENDED ACTIONS						
Action	Status	Date	Done By	Description		
Resample			?	Please submit a sample of the new (unused) oil to establish a baseline.		

HISTORICAL DIAGNOSIS

VISUAL METAL



We recommend you service the filters on this component. We advise that you inspect for the source(s) of metal. 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 metal particles present in this sample.Moderate concentration of visible metal present. All component wear rates are normal. No other contaminants were detected in the oil. The AN level is above the recommended limit.



view report

28 Mar 2023 Diag: Doug Bogart

03 Jul 2023 Diag: Doug Bogart

DEGRADATION



Resample at the next service interval to monitor. Please submit a sample of the new (unused) oil to establish a baseline. The tin level has decreased, but is still abnormal. All other component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil. The AN level is above the recommended limit.

DEGRADATION





10 Mar 2023 Diag: Don Baldridge

Resample at the next service interval to monitor. The tin level has decreased, but is still abnormal. All other component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil. The AN level is above the recommended limit.



OIL ANALYSIS REPORT

Area HOTLINE/PUSHER FURNACES Machine Id #1 PUSHER MAIN HYD SYS 1406-A10-0190 Component

Hydraulic System

BENZ OIL ULTRA GUARD 552 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please submit a sample of the new (unused) oil to establish a baseline.

Wear

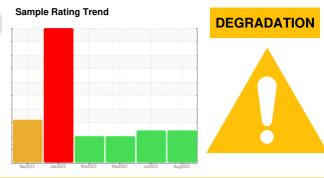
All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

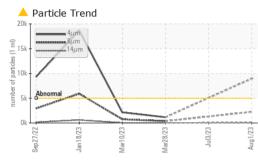
The AN level is above the recommended limit.

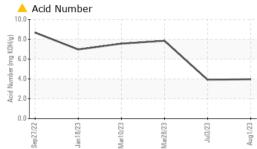


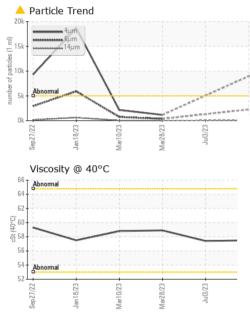
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KFS0003809	KFS0003777	KFS0003715
Sample Date		Client Info		01 Aug 2023	03 Jul 2023	28 Mar 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ATTENTION	ABNORMAL	ATTENTION
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	0	0	<1
Chromium	ppm	ASTM D5185m	>20	<1	<1	2
Nickel	ppm	ASTM D5185m	>20	0	0	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	<1	0	<1
Lead	ppm	ASTM D5185m	>20	0	0	<1
Copper	ppm	ASTM D5185m	>20	<1	<1	<1
Tin	ppm	ASTM D5185m	>20	15	14	4 5
Vanadium	ppm	ASTM D5185m		<1	<1	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	<1
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m		8	1	2
Calcium	ppm	ASTM D5185m		<1	0	<1
Phosphorus	ppm	ASTM D5185m		326	329	262
Zinc	ppm	ASTM D5185m		22	<1	13
Sulfur	ppm	ASTM D5185m		1182	1316	1170
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	1	2
Sodium	ppm	ASTM D5185m		<1	0	0
Potassium	ppm	ASTM D5185m	>20	2	<1	<1
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<u> </u>		1164
Particles >6µm		ASTM D7647	>1300	<u> </u>		374
Particles >14µm		ASTM D7647	>160	107		28
Particles >21µm		ASTM D7647	>40	31		7
Particles >38µm		ASTM D7647	>10	4		0
Particles >71µm		ASTM D7647	>3	1		0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	A 20/18/14		17/16/12
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		A 3.97	▲ 3.92	▲ 7.85



OIL ANALYSIS REPORT



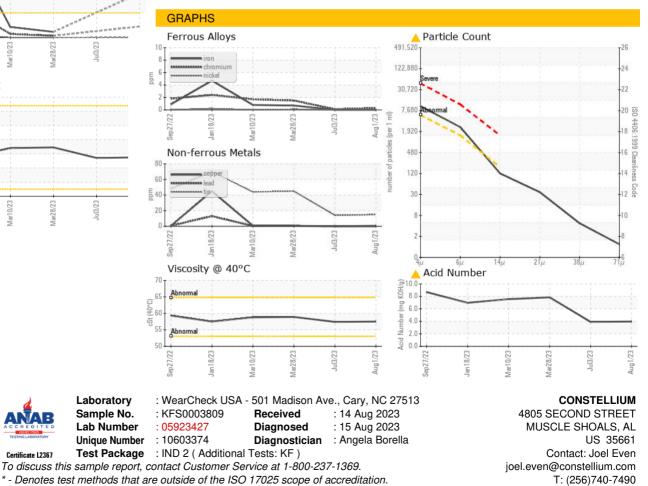




Certificate L2367

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	🔺 MODER	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		57.5	57.4	58.9
SAMPLE IMAGES	6	method	limit/base	current	history1	history2
Color						

Bottom





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

Submitted By: Kenneth Humphries

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