

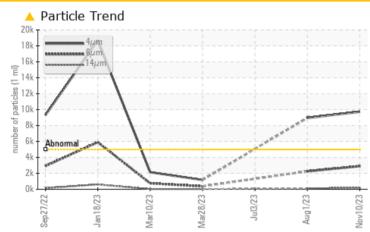
PROBLEM SUMMARY

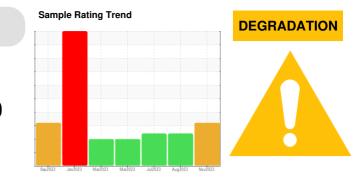
Area HOTLINE/PUSHER FURNACES Machine Id #1 PUSHER MAIN HYD SYS 1406-A10-0190 Component

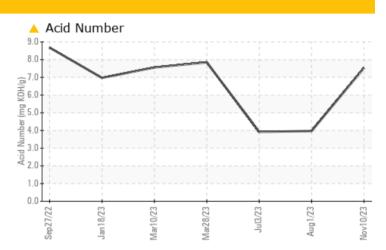
Hydraulic System

BENZ OIL ULTRA GUARD 552 (--- GAL)

COMPONENT CONDITION SUMMARY







RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor. Please submit a sample of the new (unused) oil to establish a baseline.

PROBLEMATIC TEST RESULTS

THOBEEM THO						
Sample Status				ABNORMAL	ATTENTION	ABNORMAL
Particles >4µm		ASTM D7647	>5000	A 9723	▲ 8959	
Particles >6µm		ASTM D7647	>1300	<u> </u>	🔺 2255	
Particles >14µm		ASTM D7647	>160	<u> </u>	107	
Particles >21µm		ASTM D7647	>40	<u> </u>	31	
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u> </u>	🔺 20/18/14	
Acid Number (AN)	mg KOH/g	ASTM D8045		A 7.53	A 3.97	3 .92

Customer Id: CONMUSAL Sample No.: KFS0004931 Lab Number: 06007648 Test Package: IND 2



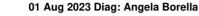
To manage this report scan the QR code

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

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

RECOMMENDED ACTIONS						
Action	Status	Date	Done By	Description		
Change Filter			?	We recommend you service the filters on this component.		
Resample			?	Please submit a sample of the new (unused) oil to establish a baseline.		

HISTORICAL DIAGNOSIS





Resample at the next service interval to monitor. Please submit a sample of the new (unused) oil to establish a baseline.All component wear rates are normal. There is no indication of any contamination in the oil. The AN level is above the recommended limit.



03 Jul 2023 Diag: Doug Bogart



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.

28 Mar 2023 Diag: Doug Bogart





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.



view report







OIL ANALYSIS REPORT

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

Hydraulic System Fluid BENZ OIL ULTRA GUARD 552 (--- GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor. Please submit a sample of the new (unused) oil to establish a baseline.

Wear

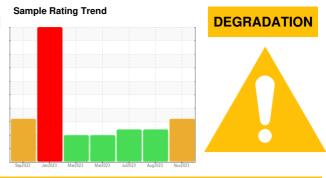
All component wear rates are normal.

Contamination

There is a high amount of particulates present in the oil.

Fluid Condition

The AN level is above the recommended limit.

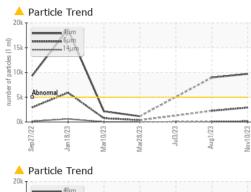


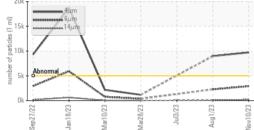
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KFS0004931	KFS0003809	KFS0003777
Sample Date		Client Info		10 Nov 2023	01 Aug 2023	03 Jul 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ATTENTION	ABNORMAL
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>0.05	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	0	0	0
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
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	0	<1	0
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m	>20	0	<1	<1
Tin	ppm	ASTM D5185m	>20	16	15	14
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		<1	8	1
Calcium	ppm	ASTM D5185m		0	<1	0
Phosphorus	ppm	ASTM D5185m		328	326	329
Zinc	ppm	ASTM D5185m		9	00	
Sulfur				9	22	<1
Cullul	ppm	ASTM D5185m		9 1078	1182	<1 1316
CONTAMINANTS		ASTM D5185m method	limit/base	1078		
		method	limit/base	1078	1182	1316
CONTAMINANTS	3	method		1078 current	1182 history1	1316 history2
CONTAMINANTS Silicon	ppm	method ASTM D5185m	>15	1078 current <1	1182 <mark>history1</mark> <1	1316 <mark>history2</mark> 1
CONTAMINANTS Silicon Sodium	ppm ppm ppm	method ASTM D5185m ASTM D5185m	>15	1078 current <1 0 <1	1182 history1 <1 <1	1316 history2 1 0
CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m	>15 >20	1078 current <1 0 <1	1182 history1 <1 <1 2	1316 history2 1 0 <1
CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm	ppm ppm ppm	methodASTM D5185mASTM D5185mASTM D5185mASTM D5185mASTM D7647ASTM D7647	>15 >20 limit/base >5000 >1300	1078 current <1 0 <1 current € 9723 € 2903	1182 history1 <1 <1 2 history1 ▲ 8959 ▲ 2255	1316 history2 1 0 <1 history2
CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm	ppm ppm ppm	methodASTM D5185mASTM D5185mASTM D5185mASTM D7647ASTM D7647ASTM D7647ASTM D7647	>15 >20 limit/base >5000 >1300 >160	1078 current <1 0 <1 current ↓ 9723 ↓ 9723 ↓ 2903 ↓ 191	1182 history1 <1 <1 2 history1 ▲ 8959 ▲ 2255 107	1316 history2 1 0 <1 history2
CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm	ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D7647 ASTM D7647 ASTM D7647	>15 >20 limit/base >5000 >1300 >160 >40	1078 current <1 0 <1 current ▲ 9723 ▲ 2903 ▲ 191 ▲ 57	1182 history1 <1 <1 2 history1 ▲ 8959 ▲ 2255 107 31	1316 history2 1 0 <1 history2
CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >21µm Particles >38µm	ppm ppm ppm	methodASTM D5185mASTM D5185mASTM D5185mASTM D5185mASTM D7647ASTM D7647ASTM D7647ASTM D7647ASTM D7647ASTM D7647ASTM D7647ASTM D7647ASTM D7647	>15 >20 limit/base >5000 >1300 >160 >40 >10	1078 current <1 0 <1 current ▲ 9723 ▲ 2903 ▲ 191 ▲ 57 5	1182 history1 <1 <1 2 history1 ▲ 8959 ▲ 2255 107 31 4	1316 history2 1 0 <1 history2
CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm Particles >71µm	ppm ppm ppm	methodASTM D5185mASTM D5185mASTM D5185mASTM D5185mASTM D7647ASTM D7647ASTM D7647ASTM D7647ASTM D7647ASTM D7647ASTM D7647ASTM D7647ASTM D7647	>15 >20 limit/base >5000 >1300 >160 >40 >10 >3	1078 current <1 0 <1 current ▲ 9723 ▲ 2903 ▲ 191 ▲ 57 5 1	1182 history1 <1 <1 2 history1 ▲ 8959 ▲ 2255 107 31 4 1	1316 history2 1 0 <1 history2
CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm	ppm ppm ppm	methodASTM D5185mASTM D5185mASTM D5185mASTM D5185mASTM D7647ASTM D7647ASTM D7647ASTM D7647ASTM D7647ASTM D7647ASTM D7647ASTM D7647ASTM D7647	>15 >20 limit/base >5000 >1300 >160 >40 >10	1078 current <1 0 <1 current ▲ 9723 ▲ 2903 ▲ 191 ▲ 57 5	1182 history1 <1 <1 2 history1 ▲ 8959 ▲ 2255 107 31 4	1316 history2 1 0 <1 history2
CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >38µm Particles >38µm Particles >71µm	ppm ppm ppm JESS	methodASTM D5185mASTM D5185mASTM D5185mASTM D5185mASTM D7647ASTM D7647ASTM D7647ASTM D7647ASTM D7647ASTM D7647ASTM D7647ASTM D7647ASTM D7647	>15 >20 limit/base >5000 >1300 >160 >40 >10 >3	1078 current <1 0 <1 current ↓ 9723 ↓ 9723 ↓ 2903 ↓ 191 ↓ 57 5 1 ↓ 20/19/15	1182 history1 <1 <1 2 history1 ▲ 8959 ▲ 2255 107 31 4 1	1316 history2 1 0 <1 history2

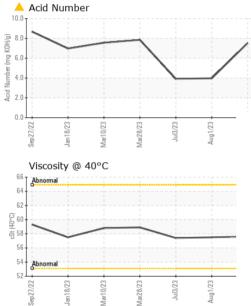
Submitted By: Kenneth Humphries



OIL ANALYSIS REPORT

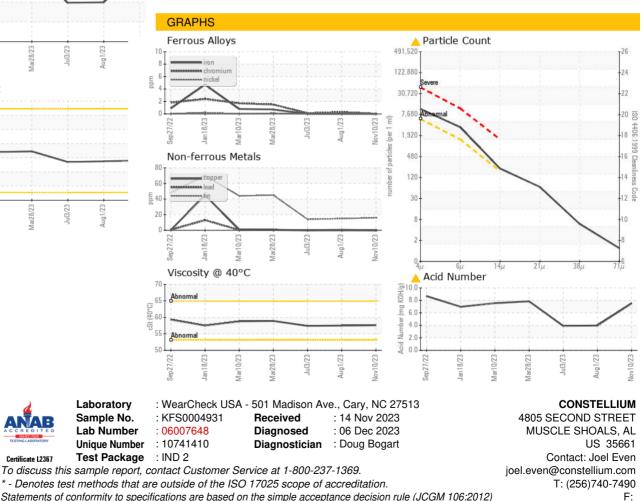






VISUAL		method	limit/base	current	history1	history2
	acalar	*Visual		NONE	NONE	
White Metal	scalar		NONE			
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	LIGHT	NONE
Sand/Dirt	scalar	*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		57.6	57.5	57.4
SAMPLE IMAGES	S	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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