

#### **PROBLEM SUMMARY**

#### Sample Rating Trend

#### **DEGRADATION**

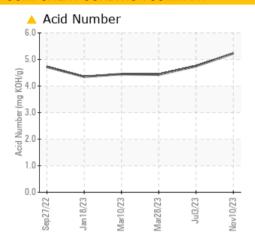
# DEGRADATION

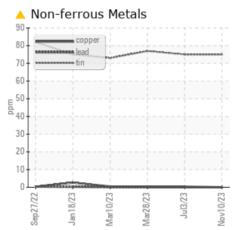
## HOTLINE/PUSHER FURNACES Machine Id #2 PUSHER MAIN HYD SYS 1406-B10-0190

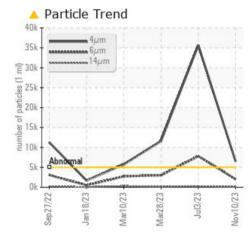
Hydraulic System

**BENZ OIL ULTRA GUARD 552 (--- GAL)** 

#### **COMPONENT CONDITION SUMMARY**







#### **RECOMMENDATION**

No corrective action is recommended at this time. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS										
Sample Status				ATTENTION	ABNORMAL	ABNORMAL				
Tin	ppm	ASTM D5185m	>20	<b>^</b> 75	<b>△</b> 75	<b>▲</b> 77				
Particles >4µm		ASTM D7647	>5000	<b>△</b> 6543	<b>△</b> 35669	<u>▲</u> 11611				
Particles >6µm		ASTM D7647	>1300	<b>^</b> 2028	<u>^</u> 7826	<b>▲</b> 3010				
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u> </u>	<u>22/20/15</u>	<u>\$\lambda\$\$ 21/19/14</u>				
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>△</b> 5.23	<b>△</b> 4.75	<b>4.43</b>				

Customer Id: CONMUSAL Sample No.: KFS0004830 Lab Number: 06007649 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:

Don Baldridge +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

#### 03 Jul 2023 Diag: Doug Bogart

#### **DEGRADATION**



We recommend you service the filters on this component. Resample at the next service interval to monitor. All component wear rates are normal. Tin noted. There is a high amount of particulates present in the oil. The AN level is above the recommended limit.



#### 28 Mar 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 is abnormal. All other component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The AN level is above the recommended limit.



#### 10 Mar 2023 Diag: Don Baldridge

#### DEGRADATION



We recommend you service the filters on this component. Resample at the next service interval to monitor. All component wear rates are normal. Tin noted. There is a high amount of particulates present in the oil. The AN level is above the recommended limit.





#### **OIL ANALYSIS REPORT**

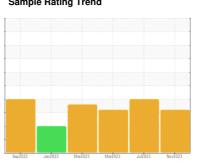
#### Sample Rating Trend

#### **DEGRADATION**

### HOTLINE/PUSHER FURNACES **#2 PUSHER MAIN HYD SYS 1406-B10-0190**

**Hydraulic System** 

**BENZ OIL ULTRA GUARD 552 (--- GAL)** 





#### **DIAGNOSIS**

#### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

All component wear rates are normal.

#### Contamination

There is a moderate 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		KFS0004830	KFS0003775	KFS0003721
Sample Date		Client Info		10 Nov 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	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	0	<1	<1
Chromium	ppm	ASTM D5185m	>20	3	3	3
Nickel	ppm	ASTM D5185m	>20	0	0	<1
Titanium	ppm	ASTM D5185m		0	1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	0	<1	1
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m	>20	0	<1	<1
Tin	ppm	ASTM D5185m	>20	<b>^</b> 75	<u> </u>	<u> 77</u>
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	<1
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		0	<1	<1
Calcium	ppm	ASTM D5185m		0	1	0
Phosphorus	ppm	ASTM D5185m		231	230	222
Zinc	ppm	ASTM D5185m		6	0	5
Sulfur	ppm	ASTM D5185m		1167	1439	1188
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	<1	1
Sodium	ppm	ASTM D5185m		0	0	0
Potassium	ppm	ASTM D5185m	>20	0	0	<1
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<b>△</b> 6543	▲ 35669	<b>▲</b> 11611
Particles >6µm		ASTM D7647	>1300	<u>^</u> 2028	<u>▲</u> 7826	▲ 3010
Particles >14µm		ASTM D7647	>160	113	<u>^</u> 222	120
Particles >21µm		ASTM D7647	>40	22	<b>4</b> 3	33
Particles >38µm		ASTM D7647	>10	1	1	1
Particles >71µm		ASTM D7647	>3	1	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>20/18/14</b>	<u>△</u> 22/20/15	<u>\$\lambda\$\$ 21/19/14</u>
FLUID DEGRADA	TION	method	limit/base	current	history1	history2

**5.23** 

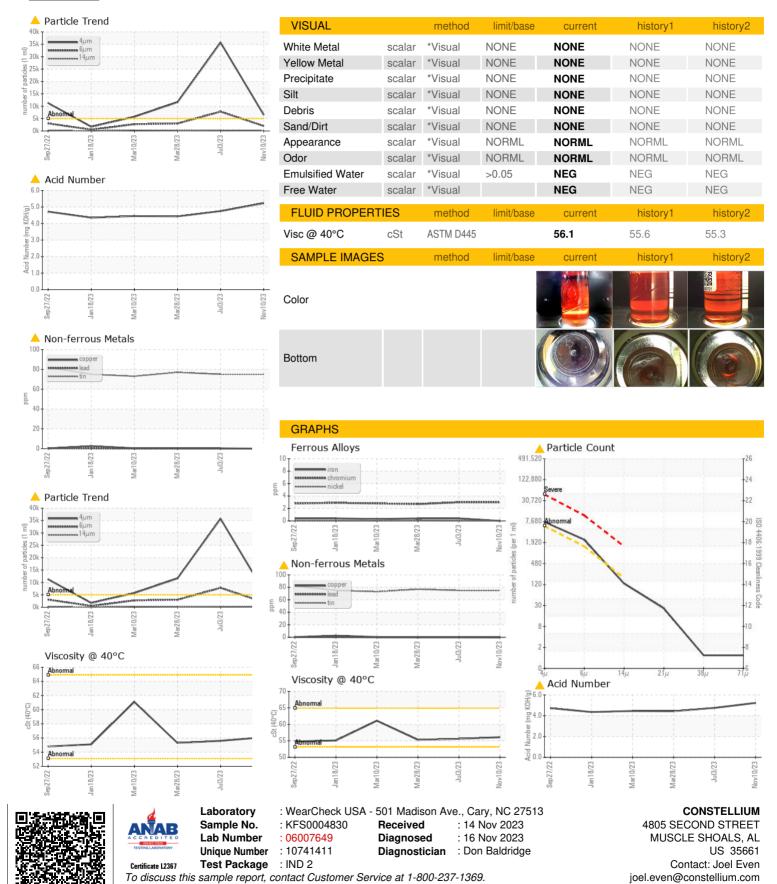
Acid Number (AN) mg KOH/g ASTM D8045

**4**.75

**4.43** 



#### **OIL ANALYSIS REPORT**



\* - 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)

T: (256)740-7490