

# **PROBLEM SUMMARY**

# Sample Rating Trend

ISO

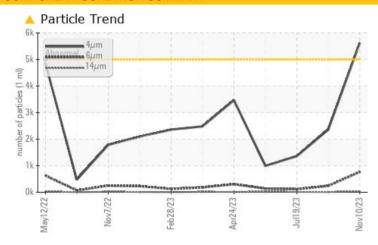
# ISO .

# HOTLINE/120 MILL Machine Id EXIT HYD RETURN LINE 1415-113-1530

Hydraulic System

QUAKER CHEMICAL QUINTOLUBRIC 888-46 (3500 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	NORMAL	NORMAL				
Particles >4µm	ASTM D7647	>5000	<u> </u>	2359	1363				
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<b>20/17/12</b>	18/15/11	18/14/11				

Customer Id: CONMUSAL Sample No.: KFS0004817 Lab Number: 06007637 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

#### 29 Sep 2023 Diag: Don Baldridge

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.



#### 19 Jul 2023 Diag: Jonathan Hester

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.



#### 23 Jun 2023 Diag: Doug Bogart

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.





# **OIL ANALYSIS REPORT**

### Sample Rating Trend

ISO



# HOTLINE/120 MILL **EXIT HYD RETURN LINE 1415-113-1530**

**Hydraulic System** 

QUAKER CHEMICAL QUINTOLUBRIC 888-46 (3500 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 silt (particulates < 14 microns in size) present in the oil.

#### **Fluid Condition**

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

46 (3500 GAL)		May2022	Nov2022 Feb2023	Apr2023 Jul2023	Nov2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KFS0004817	KFS0004884	KFS0003838
Sample Date		Client Info		10 Nov 2023	29 Sep 2023	19 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				ATTENTION	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	0	<1	<1
Chromium	ppm	ASTM D5185m	>20	0	<1	0
Nickel	ppm	ASTM D5185m	>20	0	0	0
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	0	0	0
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m	>20	0	0	<1
Tin	ppm	ASTM D5185m	>20	299	310	320
Vanadium	ppm	ASTM D5185m		0	0	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	2
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		0	0	<1
Calcium	ppm	ASTM D5185m		0	<1	0
Phosphorus	ppm	ASTM D5185m		124	110	112
Zinc	ppm	ASTM D5185m		1	<1	<1
Sulfur	ppm	ASTM D5185m		587	636	584
CONTAMINANTS	<b>;</b>	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	2	2	3
Sodium	ppm	ASTM D5185m		2	3	1
Potassium	ppm	ASTM D5185m	>20	0	<1	0
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<b>△</b> 5622	2359	1363
Particles >6µm		ASTM D7647	>1300	764	242	114
Particles >14µm		ASTM D7647	>160	28	11	13
Particles >21µm		ASTM D7647	>40	6	4	5
Particles >38µm		ASTM D7647	>10	0	1	2
Particles >71µm		ASTM D7647	>3	0	1	1
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u>^</u> 20/17/12	18/15/11	18/14/11
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	ma 1/011/a	VCTM DOUVE		1 22	1 25	1 46

1.32

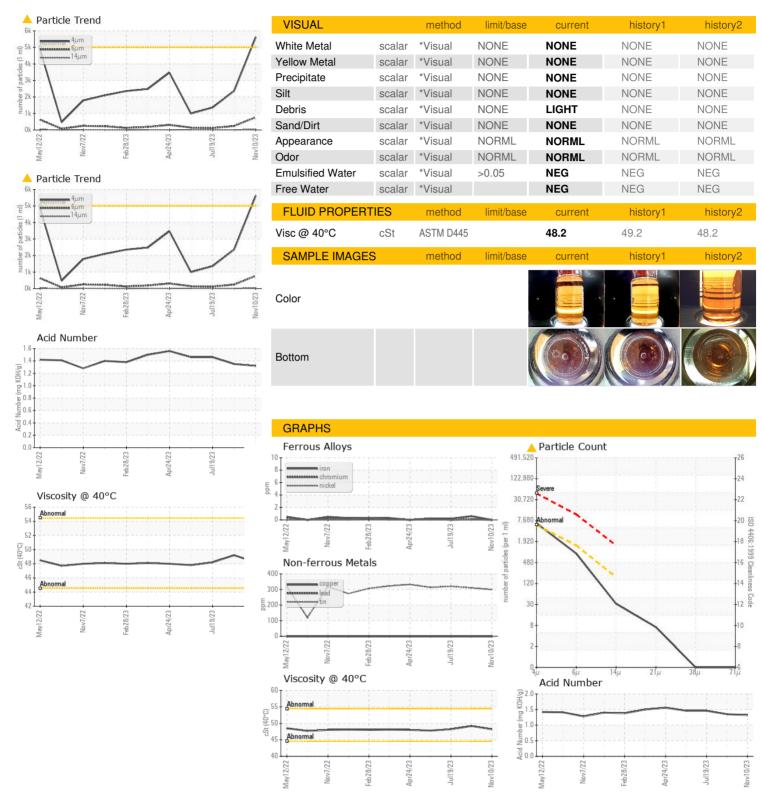
Acid Number (AN) mg KOH/g ASTM D8045

1.35

1.46



# OIL ANALYSIS REPORT







Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** 

: 06007637 : 10741399

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : KFS0004817

Received Diagnosed Diagnostician : 14 Nov 2023

: 16 Nov 2023 : Don Baldridge

Test Package : IND 2 (Additional Tests: KF)

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)

**CONSTELLIUM** 

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