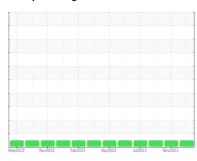


OIL ANALYSIS REPORT

HOTLINE/120 MILL **ROLL BENDING 120 1415-023-2000**

Hydraulic System

QUAKER CHEMICAL QUINTOLUBRIC 888-46 (400 GAL)



Sample Rating Trend



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

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.

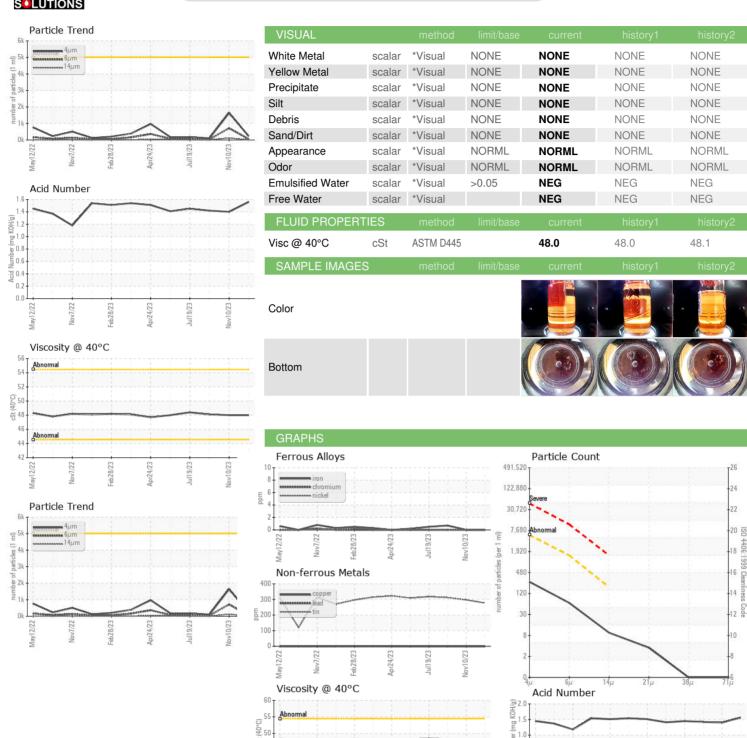
Fluid Condition

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

	Ming2022 Nov2022 Feb2023 Apr2023 Jul2023 Nov2023					
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KFS0005199	KFS0004925	KFS0004886
Sample Date		Client Info		20 Nov 2023	10 Nov 2023	29 Sep 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				NORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	0	0	<1
Chromium	ppm	ASTM D5185m	>20	0	0	0
Nickel	ppm	ASTM D5185m	>20	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
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	<1	0	<1
Tin	ppm	ASTM D5185m	>20	277	297	312
Vanadium	ppm	ASTM D5185m		<1	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	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		0	0	0
Calcium	ppm	ASTM D5185m		0	0	1
Phosphorus	ppm	ASTM D5185m		107	122	100
Zinc	ppm	ASTM D5185m		0	3	2
Sulfur	ppm	ASTM D5185m		660	595	675
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	2	2	3
Sodium	ppm	ASTM D5185m		1	1	2
Potassium	ppm	ASTM D5185m	>20	0	0	<1
Water	%	ASTM D6304	>0.05	NEG	NEG	NEG
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	229	1640	104
Particles >6µm		ASTM D7647	>1300	57	711	42
Particles >14µm		ASTM D7647	>160	8	118	5
Particles >21µm		ASTM D7647	>40	3	40	3
Particles >38µm		ASTM D7647	>10	0	1	1
Particles >71μm		ASTM D7647	>3	0	0	1
Oil Cleanliness		ISO 4406 (c)	>19/17/14	15/13/10	18/17/14	14/13/10
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		1.56	1.40	1.42



OIL ANALYSIS REPORT







Laboratory Sample No. **Unique Number**

Lab Number

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 22 Nov 2023 : KFS0005199 : 06015772 Diagnosed : 27 Nov 2023 : 10754916 Diagnostician : Jonathan Hester

Apr24/23

Feb28/23

0.0 G

Nov10/23

Test Package : IND 2 (Additional Tests: KF)

Nov7/22

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

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* - 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**

4805 SECOND STREET MUSCLE SHOALS, AL US 35661

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