

OIL ANALYSIS REPORT

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

Hydraulic System

QUAKER CHEMICAL QUINTOLUBRIC 888-46 (400 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

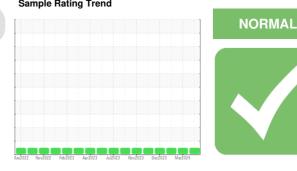
All component wear rates are normal.

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.



SAMPLE INFORM	MATION	method	limit/base	current	history1	history2		
Sample Number		Client Info		KFS0004567	KFS0002555	KFS0004629		
Sample Date		Client Info		21 Jun 2024	22 Mar 2024	16 Feb 2024		
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		
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	<1	0		
Chromium	ppm	ASTM D5185m	>20	0	<1	0		
Nickel	ppm	ASTM D5185m	>20	0	<1	0		
Titanium	ppm	ASTM D5185m		0	<1	0		
Silver	ppm	ASTM D5185m		0	0	0		
Aluminum	ppm	ASTM D5185m	>20	0	3	0		
Lead	ppm	ASTM D5185m	>20	0	<1	0		
Copper	ppm	ASTM D5185m	>20	0	<1	0		
Tin	ppm	ASTM D5185m	>20	290	336	285		
Vanadium	ppm	ASTM D5185m		0	<1	0		
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	1		
Molybdenum	ppm	ASTM D5185m		0	<1	0		
Manganese	ppm	ASTM D5185m		0	<1	0		
Magnesium	ppm	ASTM D5185m		0	<1	1		
Calcium	ppm	ASTM D5185m		2	5	1		
Phosphorus	ppm	ASTM D5185m		111	98	105		
Zinc	ppm	ASTM D5185m		0	2	7		
Sulfur	ppm	ASTM D5185m		730	507	551		
CONTAMINANTS	\$	method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185m	>15	1	2	1		
Sodium	ppm	ASTM D5185m		2	0	0		
Potassium	ppm	ASTM D5185m	>20	0	1	0		
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2		
Particles >4µm		ASTM D7647	>5000	143	1052	173		
Particles >6µm		ASTM D7647	>1300	59	372	40		
Particles >14µm		ASTM D7647	>160	11	61	5		
Particles >21µm		ASTM D7647	>40	4	22	1		
Particles >38µm		ASTM D7647	>10	0	1	0		
Particles >71µm		ASTM D7647	>3	0	0	0		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	14/13/11	17/16/13	15/12/10		
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2		
Acid Number (AN)	mg KOH/g	ASTM D8045	2.0	1.13	1.67	1.57		
5·26·52) Rev: 1	5 0				Submitted By: COLD MILL - Josh Edwards			

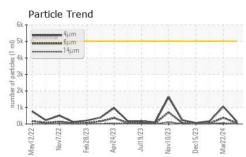
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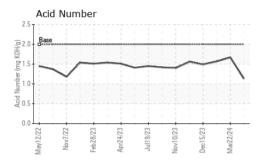
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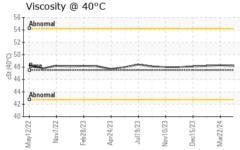
Sample Rating Trend

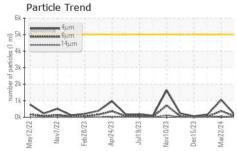


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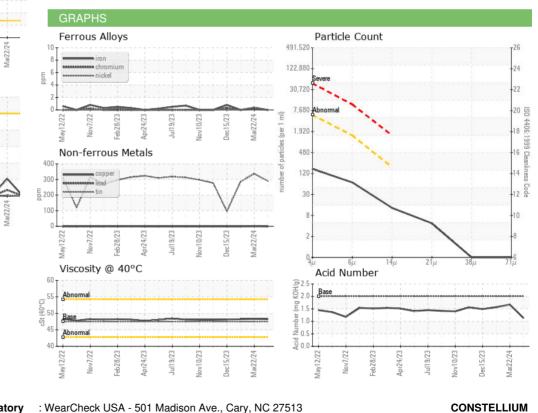








VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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	47.5	48.2	48.3	48.2
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color				•	-	
Bottom						



Laboratory Sample No. : KFS0004567 Received : 25 Jun 2024 4805 SECOND STREET Lab Number : 06219630 Tested : 26 Jun 2024 MUSCLE SHOALS, AL Unique Number : 11097827 Diagnosed : 26 Jun 2024 - Don Baldridge US 35661 Test Package : IND 2 Contact: Joel Even Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. joel.even@constellium.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (256)740-7490 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F:

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