

## **OIL ANALYSIS REPORT**

## Area HOTLINE/120 MILL Machine Id EXIT HYD PUMP HEADER 1415-113-1540

Hydraulic System

QUAKER CHEMICAL QUINTOLUBRIC 888-46 (--- GAL)

#### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

### Wear

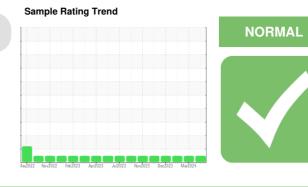
All component wear rates are normal.

#### 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.

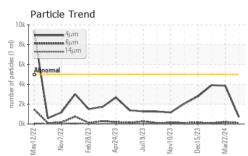


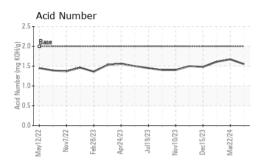
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		KFS0004564	KFS0004853	KFS0004625	
Sample Date		Client Info		21 Jun 2024	22 Mar 2024	16 Feb 2024	
Machine Age	hrs	Client Info		0	0	0	
Oil Age	hrs	Client Info		0	0	0	
Oil Changed		Client Info		N/A	N/A	N/A	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINATIO	N	method	limit/base	current	history1	history2	
Water		WC Method		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	283	318	274	
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		8	8	<1	
Phosphorus	ppm	ASTM D5185m		109	107	100	
Zinc	ppm	ASTM D5185m		0	1	6	
Sulfur	ppm	ASTM D5185m		710	566	460	
CONTAMINANTS	\$	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>15	1	2	<1	
Sodium	ppm	ASTM D5185m		2	0	<1	
Potassium	ppm	ASTM D5185m	>20	0	<1	0	
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2	
Particles >4µm		ASTM D7647	>5000	691	3846	3924	
Particles >6µm		ASTM D7647	>1300	102	201	89	
Particles >14µm		ASTM D7647	>160	10	5	5	
Particles >21µm		ASTM D7647	>40	3	2	3	
Particles >38µm		ASTM D7647	>10	0	0	2	
Particles >71µm		ASTM D7647	>3	0	0	2	
Oil Cleanliness		ISO 4406 (c)	>19/17/14	17/14/10	19/15/10	19/14/10	
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045	2.0	1.55	1.67	1.61	
5:07:00) Boy: 1	5 0			Submitted By: COLD MILL Leeb Edwards			

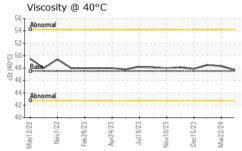
Submitted By: COLD MILL - Josh Edwards Page 1 of 2

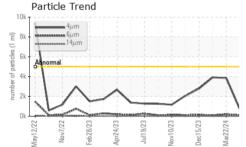


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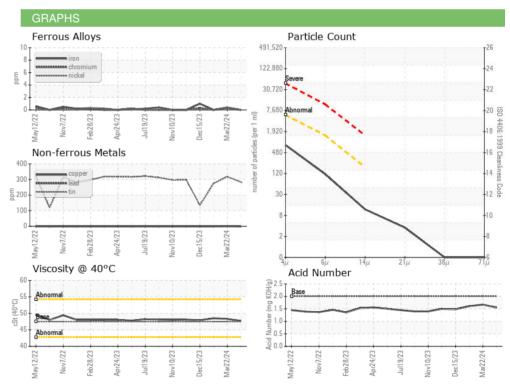


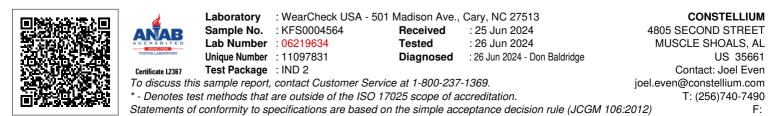






VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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	47.7	48.3	48.5
SAMPLE IMAGES	5	method	limit/base	current	history1	history2
Color						
Bottom						





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Page 2 of 2