

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

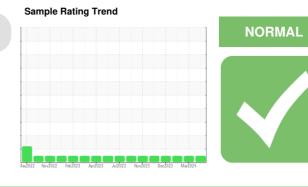
All component wear rates are normal.

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.

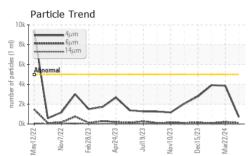


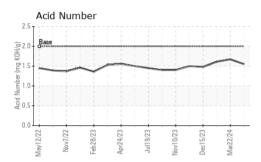
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		KFS0004564	KFS0004853	KFS0004625	
Sample Date		Client Info		21 Jun 2024	22 Mar 2024	16 Feb 2024	
Machine Age	hrs	Client Info		0	0	0	
Oil Age	hrs	Client Info		0	0	0	
Oil Changed		Client Info		N/A	N/A	N/A	
Sample 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			

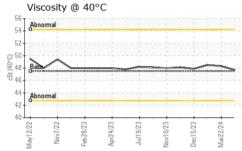
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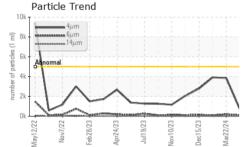


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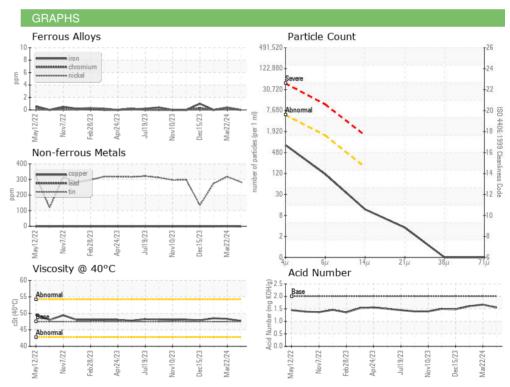


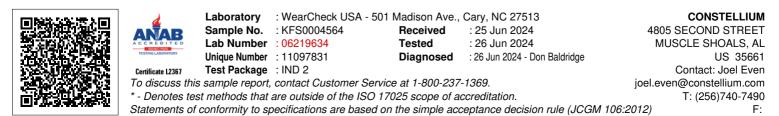






VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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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