

OIL ANALYSIS REPORT

HOTLINE/120 MILL 120-HAGC-DIRTY 120-HAGC-DIRTY

Hydraulic System

QUAKER CHEMICAL QUINTOLUBRIC 888-46 (--- 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.

-46 (GAL) Junž023 Janž023 Feb2023 Maž023 Aprž023 Junž023 Junž023 Sapž023 Novž023						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KFS0004818	KFS0004889	KFS0003802
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				NORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	0	<1	<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	0	0	0
Tin	ppm	ASTM D5185m	>20	300	311	319
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	<1	0
Calcium	ppm	ASTM D5185m		0	<1	0
Phosphorus	ppm	ASTM D5185m		119	99	110
Zinc	ppm	ASTM D5185m		1	<1	4
Sulfur	ppm	ASTM D5185m		582	619	628
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	1	2	2
Sodium	ppm	ASTM D5185m		2	2	1
Potassium	ppm	ASTM D5185m	>20	0	<1	0
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	147	110	205
Particles >6µm		ASTM D7647	>1300	56	45	70
Particles >14μm		ASTM D7647	>160	7	7	11
Particles >21µm		ASTM D7647	>40	1	3	3
Particles >38µm		ASTM D7647	>10	0	0	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	14/13/10	14/13/10	15/13/11
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	та КОЦ/а	VCTM DOUVE		1 27	1 01	1 26

1.37

Acid Number (AN) mg KOH/g ASTM D8045

1.31

1.36



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Certificate L2367

Laboratory Sample No.

Lab Number

Unique Number

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : KFS0004818 : 06007640

: 10741402

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**

4805 SECOND STREET MUSCLE SHOALS, AL

US 35661 Contact: BRENT TAYS brent.tays@constellium.com

T: (256)627-4915

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