

OIL ANALYSIS REPORT

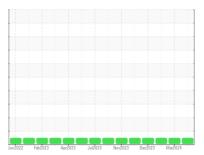
Sample Rating Trend

NORMAL

HOTLINE/120 MILL 120-HAGC-CLEAN 120-HAGC-CLEAN

Hydraulic System

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





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.

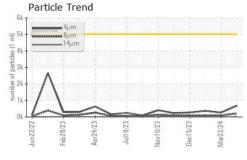
Fluid Condition

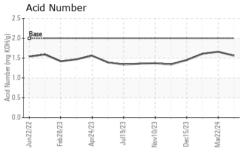
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

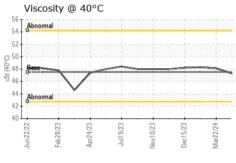
46 (GAL) hundrez Febzicza Apudreza Judoza Novdoza Deczeza Mundreza						
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KFS0004563	KFS0002553	KFS0004627
Sample Date		Client Info		21 Jun 2024	22 Mar 2024	16 Feb 2024
Machine Age	hrs	Client Info		0	0	0
Oil Age	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	0	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	288	330	271
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		<1	5	1
Phosphorus	ppm	ASTM D5185m		109	107	106
Zinc	ppm	ASTM D5185m		0	<1	7
Sulfur	ppm	ASTM D5185m		706	565	501
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	2	<1
Sodium	ppm	ASTM D5185m		3	0	<1
Potassium	ppm	ASTM D5185m	>20	0	<1	0
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	690	268	367
Particles >6µm		ASTM D7647	>1300	216	84	79
Particles >14μm		ASTM D7647	>160	19	9	10
Particles >21µm		ASTM D7647	>40	5	3	4
Particles >38µm		ASTM D7647	>10	0	0	1
Particles >71µm		ASTM D7647	>3	0	0	1
Oil Cleanliness		ISO 4406 (c)	>19/17/14	17/15/11	15/14/10	16/13/10
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2

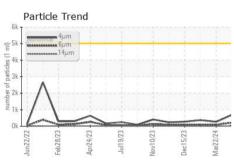


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VISUAL		method				history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
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
FILIID PROPERTIES		mothod	limit/base	current	history1	history?

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Visc @ 40°C	cSt	ASTM D445	47.5	47.3	48.1	48.3

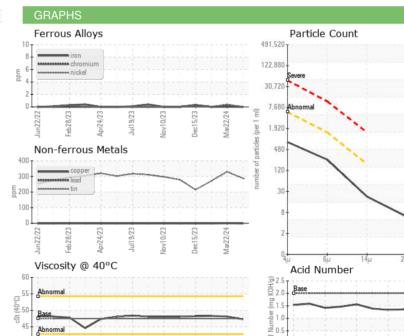
SAMPLE IMAGES	
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Color

Bottom











Laboratory Sample No.

Test Package : IND 2

40

: KFS0004563 Lab Number : 06219633 Unique Number : 11097830

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 25 Jun 2024

Diagnosed

Tested : 26 Jun 2024 : 26 Jun 2024 - Don Baldridge

0.0 Acid

Contact: Randy Nichols randall.nichols@constellium.com

T: (256)386-6956

CONSTELLIUM

US 35661

4805 SECOND STREET

MUSCLE SHOALS, AL

Certificate 12367

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)