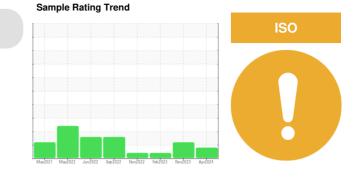


Area COLD MILL/CM-3STD-2N Prep Station HPU 3ST2 Prep Station HPU

Hydraulic Power Pack

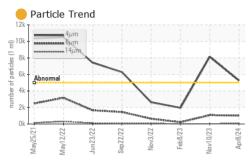
QUAKER CHEMICAL QUINTOLUBRIC 888-46 (200 GAL)

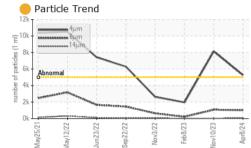
DIAGNOSIS	SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		KFS0004396	KFS0004869	KFS0002533
No corrective action is recommended at this time.	Sample Date		Client Info		08 Apr 2024	10 Nov 2023	08 Feb 2023
Resample at the next service interval to monitor.	Machine Age	hrs	Client Info		0	0	0
Wear	Oil Age	hrs	Client Info		0	0	0
All component wear rates are normal.	Oil Changed		Client Info		N/A	N/A	N/A
Contamination	Sample Status				ATTENTION	ATTENTION	ATTENTION
There is a moderate amount of silt (particulates < 6 microns in size) present in the oil.	WEAR METALS		method	limit/base	current	history1	history2
Fluid Condition	Iron	ppm	ASTM D5185m	>20	3	2	2
The AN level is acceptable for this fluid. The	Chromium	ppm	ASTM D5185m	>20	0	0	0
condition of the oil is suitable for further service.	Nickel	ppm	ASTM D5185m	>20	0	0	0
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>20	0	0	<1
	Lead	ppm	ASTM D5185m		0	0	0
	Copper	ppm	ASTM D5185m		0	<1	<1
	Tin	ppm	ASTM D5185m		281	286	283
	Vanadium	ppm	ASTM D5185m		<1	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	0
	Molybdenum		ASTM D5185m		0	0	0
	,	ppm			<1	0	
	Manganese Magnesium	ppm	ASTM D5185m ASTM D5185m			<1	<1 0
	Calcium	ppm			<1		
		ppm	ASTM D5185m		2	0	3
	Phosphorus	ppm	ASTM D5185m		100	107	98
	Zinc	ppm	ASTM D5185m		21	9	10
	Sulfur	ppm	ASTM D5185m		783	583	660
	CONTAMINANTS		method	limit/base		history1	history2
	Silicon	ppm	ASTM D5185m	>15	2	2	2
	Sodium	ppm	ASTM D5185m		1	1	2
	Potassium	ppm	ASTM D5185m		0	0	0
	Water	%	ASTM D6304	>0.05	NEG	NEG	NEG
	FLUID CLEANLIN	NESS	method	limit/base		history1	history2
	Particles >4µm		ASTM D7647		6 5268	8134	1957
	Particles >6µm		ASTM D7647		1004	1070	220
	Particles >14µm		ASTM D7647		63	22	9
	Particles >21µm		ASTM D7647	>40	17	4	2
	Particles >38µm		ASTM D7647	>10	1	1	0
	Particles >71µm		ASTM D7647	>3	1	1	0
	Oil Cleanliness		ISO 4406 (c)	>19/17/14	e 20/17/13	20/17/12	18/15/10
	FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.51	2.00	1.84

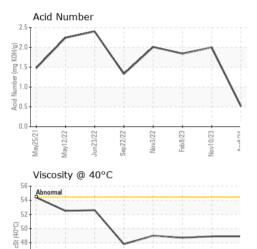




OIL ANALYSIS REPORT







Nov3/22 -

Feb 8/23

Jov10/23

46

44

42

May25/21

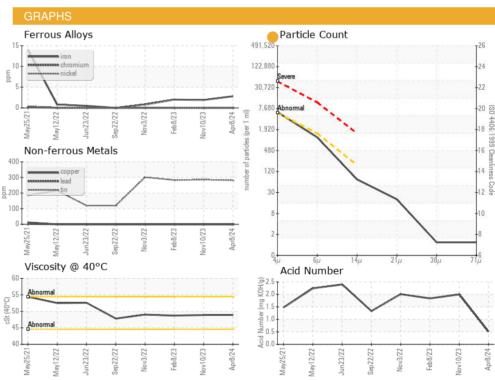
Abnorma

May12/22

lun23/22

Sep 22/22

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		48.9	48.9	48.7
Visc @ 40°C SAMPLE IMAGES		ASTM D445 method	limit/base	48.9 current	48.9 history1	48.7 history2
			limit/base			



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 CONSTELLIUM Sample No. : KFS0004396 Received : 09 Apr 2024 4805 SECOND STREET Lab Number : 06142993 Tested : 11 Apr 2024 MUSCLE SHOALS, AL Unique Number : 10967801 Diagnosed : 11 Apr 2024 - Jonathan Hester US 35661 Test Package : IND 2 (Additional Tests: KF) Contact: Josh Edwards Certificate 12367 joshua.edwards@constellium.com To discuss this sample report, contact Customer Service at 1-800-237-1369. T: (256)386-6613 * - 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) E:

Report Id: CONMUSAL [WUSCAR] 06142993 (Generated: 04/12/2024 13:42:33) Rev: 1

Submitted By: COLD MILL - Josh Edwards

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