

## **OIL ANALYSIS REPORT**

## Area Element 13 EL-SP-SHRD-0002-MILL-LUBE-SYST EL-SP-SHRD-0002-MILL-LUBE-SYST Component Journal Bearing

Fluid QUAKER CHEMICAL QUINTOLUBRIC 888-68 (50 GAL)

DIAGNOSIS	SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		KFS0004446	KFS0003452	KFS0003760
le recommend you service the filters on this	Sample Date		Client Info		19 Jun 2024	17 Nov 2023	18 Oct 2023
omponent if applicable. Resample at the next	Machine Age	hrs	Client Info		0	0	0
ervice interval to monitor.	Oil Age	hrs	Client Info		0	0	0
ear	Oil Changed		Client Info		N/A	Not Changd	Not Changd
component wear rates are normal.	Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
Contamination here is a high amount of particulates present in	WEAR METALS		method	limit/base	current	history1	history2
e oil.	Iron	ppm	ASTM D5185m	>60	0	<b>A</b> 33	<1
luid Condition	Chromium	ppm	ASTM D5185m	>20	0	<1	0
e AN level is acceptable for this fluid. The	Nickel	ppm	ASTM D5185m	>20	0	<1	0
ondition of the oil is acceptable for the time in ervice.	Titanium	ppm	ASTM D5185m		0	<1	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	mag	ASTM D5185m	>4	0	44	<1
	Lead	ppm	ASTM D5185m	>250	0	1	<1
	Copper	nom	ASTM D5185m	>125	0	3	1
	Tin	nom	ASTM D5185m	>80	289	254	330
	Vanadium	nom	ASTM D5185m	200	0	0	0
	Cadmium	ppm	ASTM D5105III		0	-1	0
	Gauinium	ррш	ASTIVI DOTODIII		U	< 1	0
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m	0	0	0	0
	Barium	ppm	ASTM D5185m	0	0	0	5
	Molybdenum	ppm	ASTM D5185m	0	0	<1	0
	Manganese	ppm	ASTM D5185m	0	0	2	<1
	Magnesium	ppm	ASTM D5185m	0	0	7	0
	Calcium	ppm	ASTM D5185m	10	0	43	4
	Phosphorus	ppm	ASTM D5185m	200	112	104	101
	Zinc	ppm	ASTM D5185m	125	0	7	0
	Sulfur	ppm	ASTM D5185m	1000	829	651	629
	CONTAMINANTS		method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>50	2	10	3
	Sodium	ppm	ASTM D5185m		2	11	3
	Potassium	maa	ASTM D5185m	>20	0	10	<1
	Water	%	ASTM D6304	>2	NEG	NEG	NEG
	FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
	Particles >4µm		ASTM D7647	>10000	<b>4</b> 34550		
	Particles >6µm		ASTM D7647	>2500	<u> </u>		
	Particles >14um		ASTM D7647	>160	<b>1572</b>		
	Particles >21um		ASTM D7647	>40	<u> </u>		
	Particles >38um		ASTM D7647	>10	A 25		
	Particles \71um		ASTM D76/7	~3	<u> </u>		
	Oil Cleanliness		ISO 4406 (c)	>20/18/14	22/21/18		
		TION		limit/hour		history	histor 0
			method		current	history i	nistory2
	Acid Number (AN)	mg KOH/g	ASTM D8045	1.5	1.63	3.37	1.55

ISO

Sample Rating Trend



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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	A HEAVY	🔺 MODER
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	🔺 MODER	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	>2	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	68	64.1	66.6	65.0
SAMPLE IMAGES	6	method	limit/base	current	history1	history2
Color				•		

Bottom



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 CONSTELLIUM Sample No. : KFS0004446 Received 4805 SECOND STREET : 25 Jun 2024 Lab Number : 06219650 Tested : 26 Jun 2024 MUSCLE SHOALS, AL Unique Number : 11097847 Diagnosed : 26 Jun 2024 - Don Baldridge US 35661 Test Package : IND 2 (Additional Tests: KF, PrtCount) Contact: Joel Even Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. joel.even@constellium.com \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (256)740-7490 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F:

Submitted By: COLD MILL - Josh Edwards

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