

OIL ANALYSIS REPORT

Sample Rating Trend **WEAR**

COLD MILL/CM-3STD-2N S1 WEST MOTOR BEARING 3ST2_S1 West Motor Bearing

Bearing

ROYAL PURPLE SYNFILM GT 68 (50 GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

The tin level is abnormal. All other component wear rates are normal.

Contamination

There is a high amount of particulates present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in

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SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KFS0005214	KFS0003649	KFS0003644
Sample Date		Client Info		04 Apr 2024	12 Jan 2024	15 Nov 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				ABNORMAL	ABNORMAL	ABNORMAL
CONTAMINATION	N	method	limit/base	current	history1	history2
Water		WC Method	>2	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	1	<1	<1
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>20	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	2	<1
Lead	ppm	ASTM D5185m	>20	0	0	<1
Copper	ppm	ASTM D5185m	>20	1	2	2
Tin	ppm	ASTM D5185m	>20	▲ 32	26	11
Vanadium	ppm	ASTM D5185m		<1	0	<1
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	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m	90	4	4	0
Calcium	ppm	ASTM D5185m		4	<1	0
Phosphorus	ppm	ASTM D5185m		87	42	0
Zinc						
	ppm	ASTM D5185m		0	0	0
Sulfur	ppm	ASTM D5185m ASTM D5185m		0 3131	0 4138	
CONTAMINANTS	ppm	ASTM D5185m method	limit/base	-		0
	ppm	ASTM D5185m		3131	4138	0 8979
CONTAMINANTS	ppm	ASTM D5185m method		3131 current	4138 history1	0 8979 history2
CONTAMINANTS Silicon	ppm	ASTM D5185m method ASTM D5185m	>15	3131 current 5	4138 history1	0 8979 history2 2
CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m	>15	3131 current 5 2	4138 history1 3 0	0 8979 history2 2 2
CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m	>15 >20	3131 current 5 2 <1	4138 history1 3 0 <1	0 8979 history2 2 2
CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN	ppm ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m method	>15 >20 limit/base	3131 current 5 2 <1 current	4138 history1 3 0 <1 history1	0 8979 history2 2 2 2 1 history2
CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm	ppm ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D7647	>15 >20 limit/base >10000	3131	4138 history1 3 0 <1 history1 ▲ 114636	0 8979 history2 2 2 1 history2 ▲ 78567
CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm	ppm ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D7647 ASTM D7647	>15 >20 limit/base >10000 >2500	3131 current 5 2 <1 current Δ 58778 Δ 4440	4138 history1 3 0 <1 history1 △ 114636 △ 8269	0 8979 history2 2 2 1 history2 ↑ 78567 ↑ 7520
CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm	ppm ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D7647 ASTM D7647 ASTM D7647	>15 >20 limit/base >10000 >2500 >160	3131	4138 history1 3 0 <1 history1 ▲ 114636 ▲ 8269 67	0 8979 history2 2 2 1 history2 ↑ 78567 ↑ 7520 ↑ 174
CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm	ppm ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>15 >20 limit/base >10000 >2500 >160 >40	3131 current 5 2 <1 current ▲ 58778 ▲ 4440 ▲ 251 ▲ 58	4138 history1 3 0 <1 history1 ▲ 114636 ▲ 8269 67 16	0 8979 history2 2 2 1 history2 ▲ 78567 ▲ 7520 ▲ 174 40
CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm	ppm ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>15 >20 limit/base >10000 >2500 >160 >40 >10	3131 current 5 2 <1 current ▲ 58778 ▲ 4440 ▲ 251 ▲ 58 1	4138 history1 3 0 <1 history1 ▲ 114636 ▲ 8269 67 16 2	0 8979 history2 2 2 1 history2 ▲ 78567 ▲ 7520 ▲ 174 40 2

Acid Number (AN)

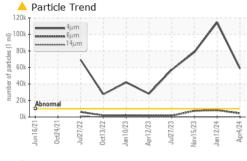
mg KOH/g ASTM D8045

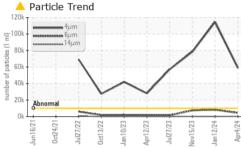
0.29

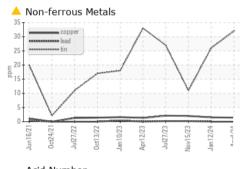
Submitted By: COLD MILL - Josh Edwards

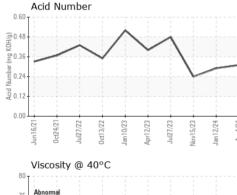


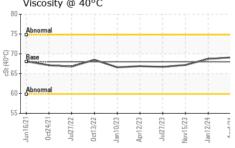
OIL ANALYSIS REPORT









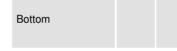


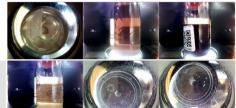
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	NONE
Sand/Dirt	scalar	*Visual	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 PROPER	TIES	method	limit/base	current	historv1	historv2

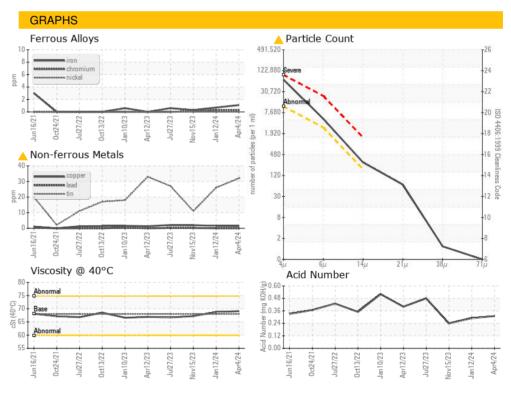
FLUID FROFERITES		memod	IIIIII/Dase	Current	HISTORY	HISTORYZ	
Visc @ 40°C	cSt	ASTM D445	68	69.1	68.7	67.2	

SAMPLE IMAGES	method	limit/base	current	history1	history2

Color











Certificate 12367

Laboratory Sample No.

: KFS0005214 Lab Number : 06141312 Unique Number : 10966120

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 08 Apr 2024 **Tested** : 09 Apr 2024

Diagnosed : 10 Apr 2024 - Don Baldridge

Test Package : IND 2 (Additional Tests: PrtCount)

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.

randall.nichols@constellium.com T: (256)386-6956 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Report Id: CONMUSAL [WUSCAR] 06141312 (Generated: 04/10/2024 18:14:13) Rev: 1

Submitted By: COLD MILL - Josh Edwards

CONSTELLIUM

US 35661

4805 SECOND STREET

MUSCLE SHOALS, AL

Contact: Randy Nichols