

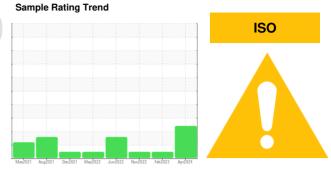
OIL ANALYSIS REPORT

COLD MILL/CM-3STD-2N

Central Hydraulics (Low Pressure) 1536-001-8020

Hydraulic System

CALUMET MAGIESOL 47 (1500 GAL)



DIAGNOSIS

Recommendation

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

All 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 suitable for further service.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KFS0004401	KFS0002537	KFS0001927
Sample Date		Client Info		08 Apr 2024	08 Feb 2023	03 Nov 2022
Machine Age		Client Info		0	0	0
Oil Age		Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	NORMAL	NORMAL
CONTAMINATION	٧	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	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		11	4	4
Lead	ppm	ASTM D5185m	>20	<1	0	0
Copper	ppm		>20	1	0	0
Tin	ppm	ASTM D5185m	>20	0	<1	0
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	<1
Barium	ppm	ASTM D5185m		0	<1	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		0	0	0
Calcium	ppm	ASTM D5185m		<1	<1	0
Phosphorus	ppm	ASTM D5185m		24	25	43
Zinc	ppm	ASTM D5185m		0	0	0
Sulfur	ppm	ASTM D5185m		519	603	446
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	<1	0
Sodium	ppm	ASTM D5185m		2	<1	0
Potassium	ppm	ASTM D5185m	>20	0	0	0
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<u> </u>	2541	3182
Particles >6µm		ASTM D7647	>1300	<u>^</u> 23535	803	655
Particles >14μm		ASTM D7647	>160	<u>^</u> 2382	71	76
Particles >21μm		ASTM D7647	>40	<u>^</u> 712	19	27
Particles >38µm		ASTM D7647	>10	4 33	1	2
Particles >71μm		ASTM D7647		1	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u>23/22/18</u>	19/17/13	19/17/13
FLUID DEGRADA	TION	method	limit/base	current	history1	history2

Acid Number (AN)

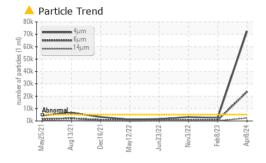
mg KOH/g ASTM D8045

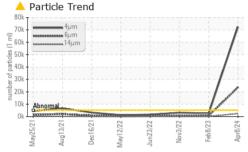
0.138

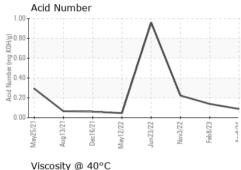


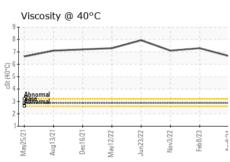
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SAMPLE IMAGES









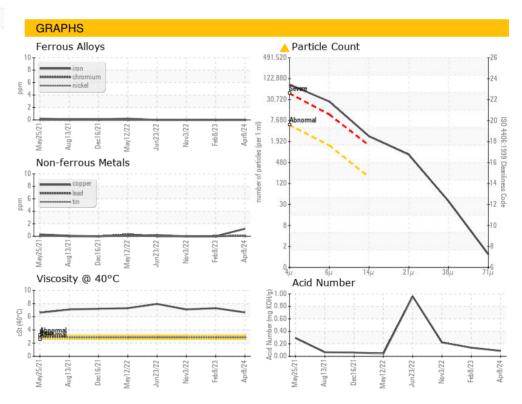
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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 PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	2.87	6.66	7.3	7.1



limit/base

current

method







Certificate 12367

Laboratory

Sample No. Lab Number : 06143468

: KFS0004401 Unique Number : 10968276 Test Package : IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 09 Apr 2024 **Tested** : 15 Apr 2024

Diagnosed : 15 Apr 2024 - Jonathan Hester

To discuss this sample report, contact Customer Service at 1-800-237-1369.

US 35661 Contact: Randy Nichols randall.nichols@constellium.com T: (256)386-6956

* - 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)

history1

history2

CONSTELLIUM 4805 SECOND STREET

MUSCLE SHOALS, AL