

OIL ANALYSIS REPORT

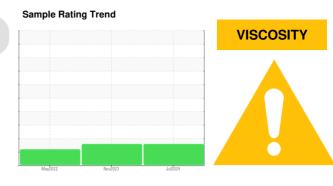
Area

HOTLINE/170 REVERSING MILL 300 SHEAR MAIN DRIVE 1411-034-6030

Gearbox

Fluid

CITGO COMPOUND EP 320 (435 GAL)



DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

Fluid Condition

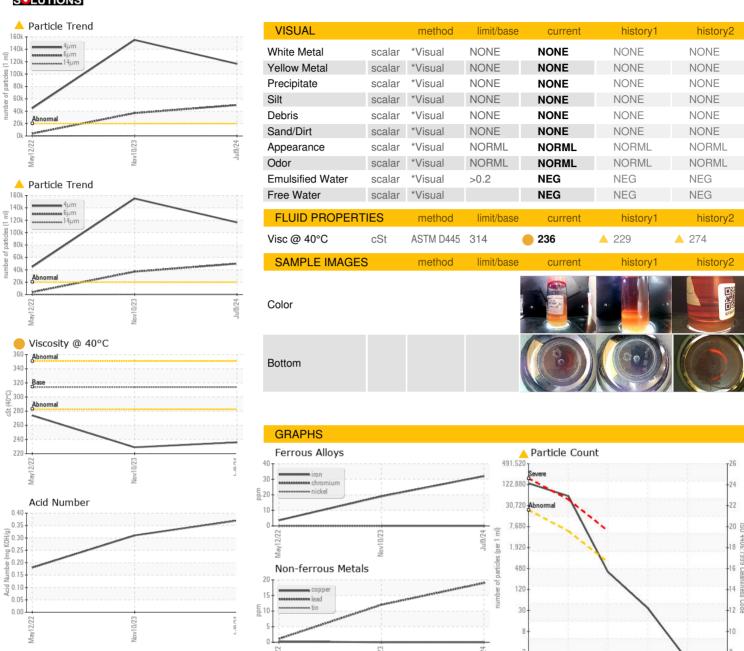
Viscosity of sample indicates oil is within ISO 220 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KFS0004679	KFS0004930	KFS0001305
Sample Date		Client Info		09 Jul 2024	10 Nov 2023	12 May 2022
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	V	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	32	19	4
Chromium	ppm	ASTM D5185m	>15	0	0	0
Nickel	ppm	ASTM D5185m	>15	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	<1	0	<1
Lead	ppm	ASTM D5185m	>100	19	12	1
Copper	ppm	ASTM D5185m	>200	0	0	<1
Tin	ppm	ASTM D5185m	>25	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVEO	•••	and the seal	15		to the barrier and	la la karra O
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	<1	3
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m		2	0	<1
Calcium	ppm	ASTM D5185m		6	<1	0
Phosphorus	ppm	ASTM D5185m		133	114	93
Zinc	ppm	ASTM D5185m		0	2	0
Sulfur	ppm	ASTM D5185m		5729	4992	5808
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	3	<1	<1
Sodium	ppm	ASTM D5185m		1	<1	0
Potassium	ppm	ASTM D5185m	>20	<1	0	<1
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	<u> </u>	<u>▲</u> 155110	44559
Particles >6µm		ASTM D7647	>5000	49959	▲ 36979	3886
Particles >14µm		ASTM D7647	>640	335	297	66
Particles >21µm		ASTM D7647	>160	31	30	13
Particles >38µm		ASTM D7647	>40	1	1	0
Particles >71µm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	24/23/16	<u>4</u> 24/22/15	<u>\$\lambda\$</u> 23/19/13
FLUID DEGRADA	TION	method	limit/base	current	history1	history2

Submitted By: COLD MILL - Josh Edwards



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : KFS0004679 Lab Number : 06237755 Unique Number: 11126589

350 St (40°C)

250

200

Tested Diagnosed Test Package : IND 2 (Additional Tests: PrtCount)

Viscosity @ 40°C

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

 st - 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) **CONSTELLIUM**

4805 SECOND STREET MUSCLE SHOALS, AL US 35661

Contact: Joel Even joel.even@constellium.com

T: (256)740-7490

Received

Acid Number

(mg KOH/g) 0.30

0.20

0.00 G

: 16 Jul 2024

: 17 Jul 2024

: 18 Jul 2024 - Jonathan Hester