

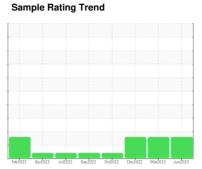
## **OIL ANALYSIS REPORT**

# **FINISHING/1830 COATING LINE**

# 1830-006-0500 - HSCCL LEVELER DIFFERENTIAL 1830-006-0500

Gearbox

CITGO COMPOUND EP 320 (--- GAL)





### Recommendation

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

All component wear rates are normal.

### Contamination

There is a moderate 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.

		Feb 2022	Apr2022 Jul2022 Sep20	122 Oct2022 Dec2022 Mar2023	Jun2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KFS0002110	KFS0003458	KFS0002171
Sample Date		Client Info		19 Jun 2023	09 Mar 2023	22 Dec 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				ATTENTION	ABNORMAL	ATTENTION
CONTAMINATION		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	2	5	1
Chromium	ppm	ASTM D5185m	>15	<1	<1	0
Nickel	ppm	ASTM D5185m	>15	0	0	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	<1	<1	0
Lead	ppm	ASTM D5185m	>100	<1	0	0
Copper	ppm	ASTM D5185m	>200	<1	<1	0
Tin	ppm	ASTM D5185m	>25	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<1	0	0
Barium	ppm	ASTM D5185m		0	1	0
Molybdenum	ppm	ASTM D5185m		0	<1	2
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m		2	3	0
Calcium	ppm	ASTM D5185m		0	7	4
Phosphorus	ppm	ASTM D5185m		131	122	126
Zinc	ppm	ASTM D5185m		0	6	0
Sulfur	ppm	ASTM D5185m		6501	4541	5709
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	<1	<1	<1
Sodium	ppm	ASTM D5185m		0	<1	0
Potassium	ppm	ASTM D5185m	>20	2	<1	<1
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	<b>39301</b>	<b>92400</b>	31258
Particles >6µm		ASTM D7647	>5000	9779	<u>▲</u> 16871	7045
Particles >14µm		ASTM D7647	>640	565	360	299
Particles >21µm		ASTM D7647	>160	138	38	58
Particles >38µm		ASTM D7647	>40	9	1	5
Particles >71µm		ASTM D7647	>10	1	0	1
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<b>22/20/16</b>	<u>4</u> 24/21/16	22/20/15
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Asid Number (ANI)	ma I/OII/a	ACTM DOOM		0.42	0.45	0.45

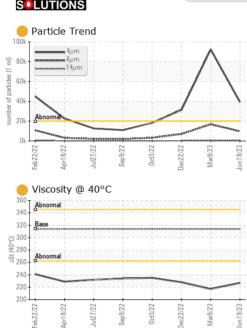
Acid Number (AN)

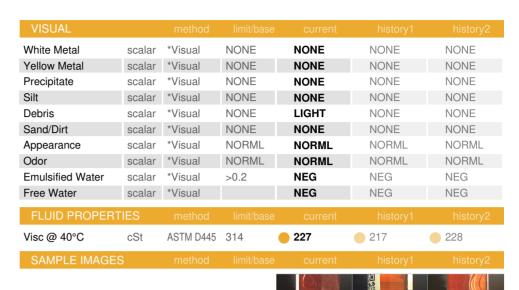
mg KOH/g ASTM D8045

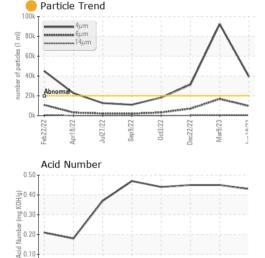
0.43

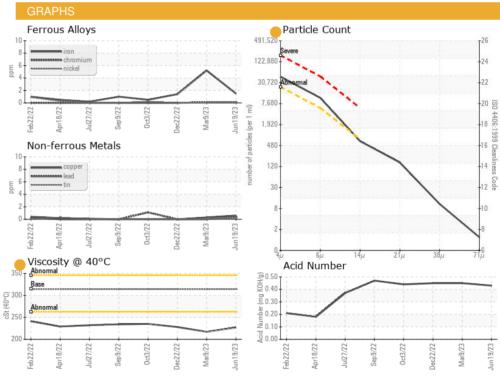


## **OIL ANALYSIS REPORT**













Certificate 12367

Dec22/2

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : KFS0002110 Lab Number : 05878052

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

Color

**Bottom** 

Received **Tested** Unique Number : 10523155

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

: 22 Jun 2023 : 22 Jun 2023 - Don Baldridge

: 20 Jun 2023

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

4805 SECOND STREET

MUSCLE SHOALS, AL

 $^st$  - 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** 

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