

OIL ANALYSIS REPORT

Sample Rating Trend



HOTLINE/130 REVERSING MILL Machine Id 130 SCREWDOWN LUBE RESV 1414-041-1010

Component

Gearbox

CITGO COMPOUND EP 320 (2500 GAL)

DIAGNOSIS

Recommendation

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition.

Wear

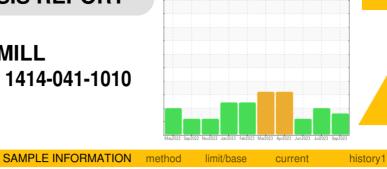
All component wear rates are normal.

Contamination

There is a moderate amount of particulates (2 to 100 microns in size) present in the oil. The water content is negligible. The system cleanliness is above the acceptable limit for the target ISO 4406 cleanliness code.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



Sample Number		Client Info		KFS0004891	KFS0003840	KFS0002183
Sample Date		Client Info		29 Sep 2023	19 Jul 2023	23 Jun 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
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	13	7	8
Chromium	ppm	ASTM D5185m	>15	<1	0	<1
Nickel	ppm	ASTM D5185m	>15	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	0	0	<1
Lead	ppm	ASTM D5185m	>100	0	0	0
Copper	ppm	ASTM D5185m	>200	2	1	1
Tin	ppm	ASTM D5185m	>25	0	2	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES	PP	method	limit/base	current		
			imivoase		history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	2	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m		<1	<1	0
Calcium	ppm	ASTM D5185m		1	2	0
Phosphorus	ppm	ASTM D5185m		110	102	117
Zinc	ppm	ASTM D5185m		2	5	0
Sulfur	ppm	ASTM D5185m		4625	4401	6500
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	<1	<1	<1
Sodium	ppm	ASTM D5185m		3	3	0
Potassium	ppm	ASTM D5185m	>20	2	0	2
Water	%	ASTM D6304	>0.2	0.120	0.073	
ppm Water	ppm	ASTM D6304	>2000	1200	737.6	
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	11553	▲ 47621	▲ 43798
Particles >6µm		ASTM D7647	>5000	6294	<u>▲</u> 11596	A 8416
Particles >14µm		ASTM D7647	>640	1071	526	299
Particles >21µm		ASTM D7647	>160	4 361	103	59
Particles >38µm		ASTM D7647	>40	56	2	1
Particles >71µm		ASTM D7647	>10	6	0	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	21/20/17	△ 23/21/16	△ 23/20/15
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.40	0.43	0.41



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Certificate L2367

Sample No. Lab Number **Unique Number**

: KFS0004891 : 05967764 : 10674315

: 03 Oct 2023 Recieved Diagnosed : 09 Oct 2023 Diagnostician : Wes Davis

Test Package : IND 2 (Additional Tests: KF, 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. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) 4805 SECOND STREET MUSCLE SHOALS, AL

US 35661 Contact: Joel Even

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