

WEAR NORMAL CONTAMINATION **SEVERE FLUID CONDITION ATTENTION** 



## Machine Id CATERPILLAR 345C 345C-2 (S/N TDG00286) Left Swing Drive

MOBIL MOBILTRANS AST 30 (--- GAL)

RECOMMENDATION

We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

**WEAR** 

All component wear rates are normal.

## CONTAMINATION

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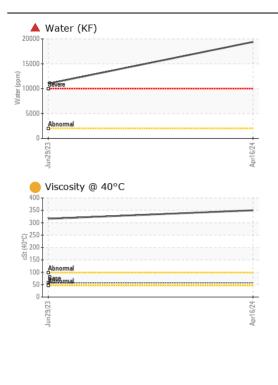
Appearance is hazy. There is a high concentration of water present in the oil.

<b>FLU</b>	$\mathbf{c}$		
FLUI		ND	

The oil is no longer serviceable due to the presence of contaminants.

- GAL)						
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TLY0002282	TLY0001651	
Sample Date		Client Info		16 Apr 2024	29 Jun 2023	
Machine Age	hrs	Client Info		12433	12050	
Oil Age	hrs	Client Info		12050	2050	
Filter Age	hrs	Client Info		12050	2050	
Oil Changed		Client Info		Not Changd	Not Changd	
Filter Changed		Client Info		Not Changd	N/A	
Sample Status				SEVERE	SEVERE	
Iron	ppm	ASTM D5185m	>400	355	251	
Chromium	ppm	ASTM D5185m	>10	2	2	
Nickel	ppm	ASTM D5185m	>10	0	0	
Titanium	ppm	ASTM D5185m		139	140	
Silver	ppm	ASTM D5185m		<1	<1	
Aluminum	ppm	ASTM D5185m	>25	15	11	
Lead	ppm	ASTM D5185m	>50	0	0	
Copper	ppm	ASTM D5185m	>200	0	1	
Tin	ppm	ASTM D5185m	>10	<1	<1	
Vanadium	ppm	ASTM D5185m		<1	1	
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Silicon		ASTM D5185m	>50	47	05	
	ppm	ASTM D5185m	>20	47 2	35 2	
Potassium Water	ppm			∠ ▲ 1.94	∠ ▲ 1.10	
	%	ASTM D6304 ASTM D6304	>0.2 >2000	<ul><li>1.94</li><li>19400</li></ul>	▲ 11000	
ppm Water	ppm			NONE		
Silt	scalar	*Visual	NONE NONE	NONE	NONE	
Debris	scalar	*Visual			NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML		NORML	
Odor	scalar	*Visual		NORML	NORML	
Emulsified Water	scalar	*Visual	>0.2	<b>0.2%</b>	▲ 0.2%	
Sodium	ppm	ASTM D5185m		2	3	
Boron	ppm	ASTM D5185m		15	20	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m		4	3	
Manganese	ppm	ASTM D5185m		4	2	
Magnesium	ppm	ASTM D5185m		10	16	
Calcium	ppm	ASTM D5185m		2951	2970	
Phosphorus	ppm	ASTM D5185m		1082	1058	
Zinc	ppm	ASTM D5185m		1568	1589	
Sulfur	ppm	ASTM D5185m		12823	13820	
Visc @ 40°C	cSt	ASTM D445	57.6	350	316	
			0.10			

Submitted By: BRANDY BADING



> **GAINES & COMPANY** 112 WESTMINISTER RD REISTERSTOWN, MD

> > F:

Lab Number : 06154937 Tested : 24 Apr 2024 Unique Number : 10990360 Diagnosed : 24 Apr 2024 - Sean Felton US 21136 Test Package : CONST (Additional Tests: KF) Contact: LANCE TANCRAITOR Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. ltancraitor@gainesandco.com \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (410)833-9833 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Received

: 19 Apr 2024

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

Laboratory

Sample No.

: TLY0002282