

WEAR ABNORMAL CONTAMINATION ABNORMAL FLUID CONDITION NORMAL



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

Left Final Drive

SAE 50W (--- GAL)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor.



Bearing and/or bushing wear is indicated.

## CONTAMINATION

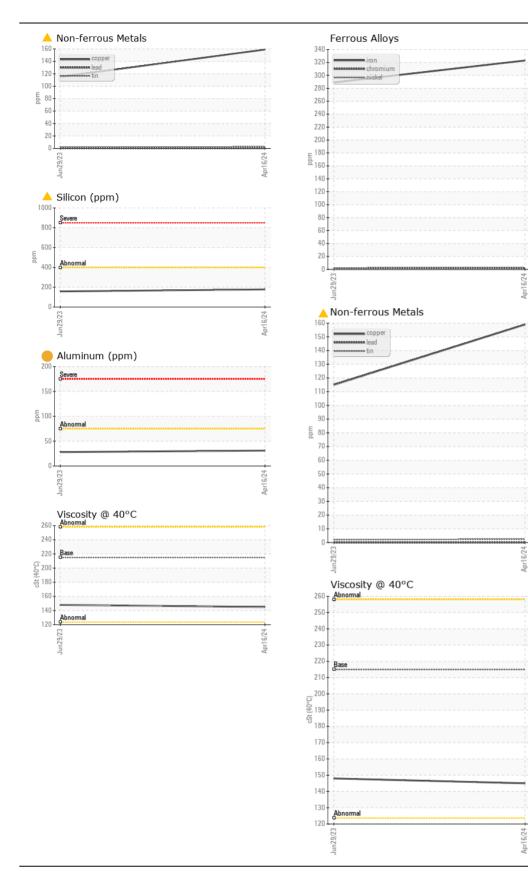
Elemental levels of silicon (Si) and aluminum (AI) indicate aluminasilicate (coarse dirt) ingress.

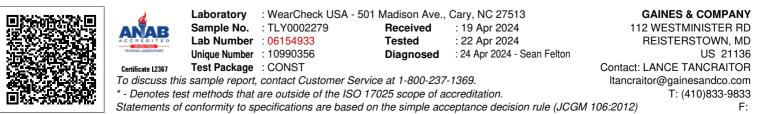
FLU	ONL	IN

The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TLY0002279	TLY0001649	
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				ABNORMAL	ABNORMAL	
Iron	nnm	ASTM D5185m	>800	323	289	
Chromium	ppm	ASTM D5185m	>000	2	209	
Nickel	ppm	ASTM D5185m	>5	2	0	
Titanium	ppm	ASTM D5185m	>15	2	2	
Silver	ppm	ASTM D5185m	>15	2	0	
Aluminum	ppm	ASTM D5185m	>75	0 31	28	
Lead	ppm	ASTM D5185m	>10	0	0	
	ppm	ASTM D5185m	>75	0 <u> </u>	115	
Copper Tin	ppm	ASTM D5185m	>75	2	2	
Vanadium	ppm	ASTM D5185m	>0	2	<1	
White Metal	ppm scalar	*Visual	NONE	NONE	< I NONE	
Yellow Metal		*Visual	NONE	NONE	NONE	
	scalar	visuai	NONE		NONE	
Silicon	ppm	ASTM D5185m	>400	<b>1</b> 78	<b>1</b> 58	
Potassium	ppm	ASTM D5185m	>20	7	6	
Water		WC Method	>0.2	NEG	NEG	
Silt	scalar	*Visual	NONE	MODER	MODER	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
Sodium	ppm	ASTM D5185m		1	1	
Boron	ppm	ASTM D5185m		0	0	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m		۰ <1	<1	
Manganese	ppm	ASTM D5185m		3	2	
Magnesium	ppm	ASTM D5185m		0	1	
Calcium	ppm	ASTM D5185m		320	305	
Phosphorus	ppm	ASTM D5185m		399	413	
Zinc	ppm	ASTM D5185m		110	126	
Sulfur	ppm	ASTM D5185m		27235	25056	
Cullui	PPIII			2.200	20000	
Visc @ 40°C	cSt	ASTM D445	215	145	148	

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