

NORMAL WEAR CONTAMINATION NORMAL **FLUID CONDITION** NORMAL

OIL ANALYSIS REPORT

Machine Id CATERPILLAR 336E #2 (S/N FJH01180)

Front Left Final Drive

SAE 50W (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

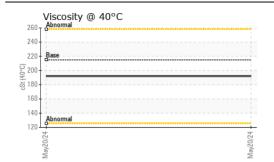
There is no indication of any contamination in the oil.

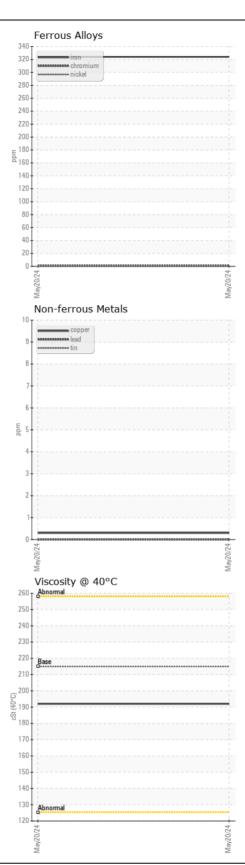
FLUID CONDITION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TLY0002328		
Sample Date		Client Info		20 May 2024		
Machine Age	hrs	Client Info		11666		
Oil Age	hrs	Client Info		11613		
Filter Age	hrs	Client Info		11613		
Oil Changed		Client Info		Changed		
Filter Changed		Client Info		Changed		
Sample Status				NORMAL		
Iron		ASTM D5185m	>800	324		
Chromium	ppm	ASTM D5185m	>10	<1		
Nickel	ppm	ASTM D5105m	>5	0		
Titanium	ppm ppm	ASTM D5185m	>15	0		
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm	ASTM D5185m	>75	6		
Lead	ppm	ASTM D5185m	>10	0		
Copper	ppm	ASTM D5185m	>75	<1		
Tin	ppm	ASTM D5185m	>8	0		
Vanadium	ppm	ASTM D5185m	20	0		
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
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Silicon	ppm	ASTM D5185m	>400	38		
Potassium	ppm	ASTM D5185m	>20	0		
Water		WC Method	>0.2	NEG		
Silt	scalar	*Visual	NONE	NONE		
Debris	scalar	*Visual	NONE	NONE		
Sand/Dirt	scalar	*Visual				
		visual	NONE	NONE		
Appearance	scalar	*Visual	NONE NORML	NORML		
Odor	scalar scalar	*Visual *Visual				
		*Visual	NORML	NORML		
Odor Emulsified Water	scalar scalar	*Visual *Visual *Visual	NORML	NORML NORML NEG		
Odor Emulsified Water Sodium	scalar scalar ppm	*Visual *Visual	NORML	NORML NORML NEG 0		
Odor Emulsified Water Sodium Boron	scalar scalar ppm ppm	*Visual *Visual *Visual ASTM D5185m ASTM D5185m	NORML	NORML NORML NEG 0 11		
Odor Emulsified Water Sodium Boron Barium	scalar scalar ppm ppm ppm	*Visual *Visual *Visual ASTM D5185m	NORML	NORML NORML NEG 0		
Odor Emulsified Water Sodium Boron Barium Molybdenum	scalar scalar ppm ppm	*Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m	NORML	NORML NORML NEG 0 11		
Odor Emulsified Water Sodium Boron Barium	scalar scalar ppm ppm ppm ppm	*Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NORML	NORML NORML NEG 0 11 0 2		
Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese	scalar scalar ppm ppm ppm ppm ppm	*Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NORML	NORML NORML NEG 0 11 0 2 2 2		
Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium	scalar scalar ppm ppm ppm ppm ppm	*Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NORML	NORML NORML NEG 0 11 0 2 2 2 30		
Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	scalar scalar ppm ppm ppm ppm ppm ppm	*Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NORML	NORML NORML NEG 0 11 0 2 2 2 30 3692		
Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	scalar scalar ppm ppm ppm ppm ppm ppm	*Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NORML	NORML NORML NEG 0 11 0 2 2 2 30 3692 989		

Submitted By: BRANDY BADING





Lab Number : 06194305 Tested REISTERSTOWN, MD : 31 May 2024 Unique Number : 11056428 Diagnosed : 31 May 2024 - Don Baldridge US 21136 Test Package : CONST Contact: BRANDY BADING Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. bbading@gainesandco.com * - 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)

Received

: 29 May 2024

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

Laboratory

Sample No.

: TLY0002328

Submitted By: BRANDY BADING Page 2 of 2

GAINES & COMPANY

Т:

F:

112 WESTMINISTER RD