

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

Limit/Abn Current

History1

History2

RECOMMENDATION

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

Test

UOM

Method

Right Swing Drive

MOBIL MOBILTRANS AST 30 (--- GAL)

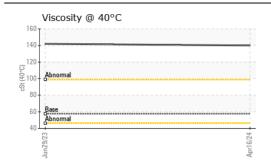
TEOOMMENDA HON	1631	00101	IVIO
Resample at the next service interval to monitor.	Sample Number		CI
	Sample Date		CI
	Machine Age	hrs	CI
	Oil Age	hrs	CI
	Filter Age	hrs	С
	Oil Changed		CI
	Filter Changed		С
	Sample Status		
WEAR			
	Iron	ppm	AS
All component wear rates are normal.	Chromium	ppm	AS
	Nickel	ppm	AS
	Titanium	ppm	AS
	Silver	ppm	AS
	Aluminum	ppm	AS
	Lead	ppm	AS
	Copper	ppm	AS
	Tin	ppm	AS
	Vanadium	ppm	AS
	White Metal	scalar	*\
	Yellow Metal	scalar	*\
CONTAMINATION	Silicon	ppm	AS
There is no indication of any contamination in the oil.	Potassium	ppm	AS
······································	Water		W
	Silt	scalar	*\
	Debris	scalar	*\
	Sand/Dirt	acalar	*\

FLUID CONDITION

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

Test	UOIVI	Method	LIIIII/ADII	Current	Inistory I	HISTOLAS
Sample Number		Client Info		TLY0002280	TLY0001652	
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				NORMAL	NORMAL	
Iron	ppm	ASTM D5185m	>400	149	186	
Chromium		ASTM D5185m	>400	<1	<1	
Nickel	ppm					
	ppm	ASTM D5185m	>10	0	0	
Titanium	ppm	ASTM D5185m		0	<1	
Silver	ppm	ASTM D5185m	0.7	0	0	
Aluminum	ppm	ASTM D5185m	>25	<1	<1	
Lead	ppm	ASTM D5185m	>50	0	0	
Copper	ppm	ASTM D5185m	>200	<1	1	
Tin	ppm	ASTM D5185m	>10	0	0	
Vanadium	ppm	ASTM D5185m		0	0	
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Silicon	ppm	ASTM D5185m	>50	11	8	
Silicon Potassium	ppm ppm	ASTM D5185m ASTM D5185m	>50 >20	11 0	8 0	
Potassium		ASTM D5185m	>20	0	0	
Potassium Water	ppm	ASTM D5185m WC Method	>20 >0.2	0 NEG	0 NEG	
Potassium Water Silt	ppm scalar	ASTM D5185m WC Method *Visual	>20 >0.2 NONE	0 NEG NONE	0 NEG LIGHT	
Potassium Water Silt Debris	ppm scalar scalar	ASTM D5185m WC Method *Visual *Visual	>20 >0.2 NONE NONE	0 NEG NONE NONE	0 NEG LIGHT NONE	
Potassium Water Silt Debris Sand/Dirt	ppm scalar scalar scalar	ASTM D5185m WC Method *Visual *Visual	>20 >0.2 NONE NONE NONE	0 NEG NONE NONE	0 NEG LIGHT NONE NONE	
Potassium Water Silt Debris Sand/Dirt Appearance	ppm scalar scalar scalar scalar	ASTM D5185m WC Method *Visual *Visual *Visual	>20 >0.2 NONE NONE NONE	0 NEG NONE NONE NONE NORML	0 NEG LIGHT NONE NONE NORML	
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water	ppm scalar scalar scalar scalar scalar scalar	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual	>20 >0.2 NONE NONE NORML	0 NEG NONE NONE NORML NORML NEG	0 NEG LIGHT NONE NORML NORML NEG	
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium	ppm scalar scalar scalar scalar scalar scalar	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m	>20 >0.2 NONE NONE NORML	0 NEG NONE NONE NORML NORML NEG	0 NEG LIGHT NONE NORML NORML NEG	
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron	ppm scalar scalar scalar scalar scalar scalar ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m	>20 >0.2 NONE NONE NORML	0 NEG NONE NONE NORML NORML NEG <1 9	0 NEG LIGHT NONE NORML NORML NEG 1 15	
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	ppm scalar scalar scalar scalar scalar scalar ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m	>20 >0.2 NONE NONE NORML	0 NEG NONE NONE NORML NORML NEG <1 9 0	0 NEG LIGHT NONE NORML NORML NEG 1 15 0	
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum	ppm scalar scalar scalar scalar scalar ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m	>20 >0.2 NONE NONE NORML	0 NEG NONE NONE NORML NORML NEG <1 9 0 0	0 NEG LIGHT NONE NORML NORML NEG 1 15 0 <1	
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese	ppm scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >0.2 NONE NONE NORML	0 NEG NONE NONE NORML NORML NEG <1 9 0 0 0 2	0 NEG LIGHT NONE NORML NORML NEG 1 15 0 <1 2	
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Manganese Magnesium	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >0.2 NONE NONE NORML	0 NEG NONE NONE NORML NORML NEG <1 9 0 0 0 2 0	0 NEG LIGHT NONE NORML NORML NEG 1 15 0 <1 2 6	
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Barium Molybdenum Manganese Magnesium	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >0.2 NONE NONE NORML	0 NEG NONE NONE NORML NORML NEG <1 9 0 2 0 2 0 2 0 425	0 NEG LIGHT NONE NORML NORML NEG 1 15 0 <1 2 6 570	
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Barium Molybdenum Manganese Magnesium Calcium	ppm scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >0.2 NONE NONE NORML	0 NEG NONE NONE NORML NORML NEG <1 9 0 2 0 2 0 2 0 425 609	0 NEG NONE NONE NORML NORML NEG 1 15 0 <1 2 6 570 633	
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Boron Barium Malybdenum Manganese Magnesium Calcium Phosphorus	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >0.2 NONE NONE NORML	0 NEG NONE NONE NORML NORML NEG <1 9 0 0 2 0 0 2 0 0 425 609 412	0 NEG NONE NONE NORML NORML NEG 1 15 0 <1 2 6 570 633 462	
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Barium Molybdenum Manganese Magnesium Calcium	ppm scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >0.2 NONE NONE NORML	0 NEG NONE NONE NORML NORML NEG <1 9 0 2 0 2 0 2 0 425 609	0 NEG NONE NONE NORML NORML NEG 1 15 0 <1 2 6 570 633	

Submitted By: BRANDY BADING



Ferrous Alloys 200 180 160 140 120 la 100 80 40 C Apr16/24 Non-ferrous Metals 10 lead maa pr16/74 Viscosity @ 40°C 150 140 130 120 110 () 100 00 5 90 8 70 60 B 50 Abnorma 40 Apr16/24



GAINES & COMPANY Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. Received : 19 Apr 2024 112 WESTMINISTER RD : TLY0002280 Lab Number : 06154934 Tested REISTERSTOWN, MD : 22 Apr 2024 Unique Number : 10990357 Diagnosed : 24 Apr 2024 - Sean Felton US 21136 Test Package : CONST 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) F:

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