

# WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION ATTENTION

# Ascendum Machinery/250 Hour Service SANDVIK 64500

## Tank Circulating Shank Lube

# CITGO CITGO CITGEAR® Synthetic EP 150 (--- GAL)

#### RECOMMENDATION

The oil change at the time of sampling has been noted. 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 oil viscosity is lower than normal. Confirm oil type.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ASC0007134	ASC0001406	ASC0000403
Sample Date		Client Info		08 Apr 2024	11 Sep 2023	12 May 2023
Machine Age	hrs	Client Info		6029	5044	4617
Oil Age	hrs	Client Info		985	427	4411
Filter Age	hrs	Client Info		0	0	4411
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ATTENTION	ATTENTION	ATTENTION
Iron	 maa	ASTM D5185m		16	17	28
Chromium	maa	ASTM D5185m		<1	<1	<1
Nickel	maa	ASTM D5185m		2	2	2
Titanium	ppm	ASTM D5185m		0	<1	1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m		7	5	9
Lead	ppm	ASTM D5185m		2	1	<1
Copper	ppm	ASTM D5185m		128	85	39
Tin	ppm	ASTM D5185m		3	2	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m		3	13	25
Silicon Potassium	ppm ppm	ASTM D5185m ASTM D5185m	>20	3 2	13 4	25 4
Silicon Potassium Water	ppm ppm	ASTM D5185m ASTM D5185m WC Method	>20	3 2 NEG	13 4 NEG	25 4 NEG
Silicon Potassium Water Silt	ppm ppm scalar	ASTM D5185m ASTM D5185m WC Method *Visual	>20 NONE	3 2 NEG NONE	13 4 NEG NONE	25 4 NEG NONE
Silicon Potassium Water Silt Debris	ppm ppm scalar scalar	ASTM D5185m ASTM D5185m WC Method *Visual *Visual	>20 NONE NONE	3 2 NEG NONE NONE	13 4 NEG NONE NONE	25 4 NEG NONE NONE
Silicon Potassium Water Silt Debris Sand/Dirt	ppm ppm scalar scalar scalar	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual	>20 NONE NONE NONE	3 2 NEG NONE NONE NONE	13 4 NEG NONE NONE NONE	25 4 NEG NONE NONE NONE
Silicon Potassium Water Silt Debris Sand/Dirt Appearance	ppm ppm scalar scalar scalar scalar	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual	>20 NONE NONE NONE NORML	3 2 NEG NONE NONE NONE NORML	13 4 NEG NONE NONE NONE NORML	25 4 NEG NONE NONE NONE NORML
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor	ppm ppm scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual	>20 NONE NONE NORML NORML	3 2 NEG NONE NONE NONE NORML NORML	13 4 NEG NONE NONE NONE NORML NORML	25 4 NEG NONE NONE NONE NORML NORML
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water	ppm ppm scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual	>20 NONE NONE NORML NORML	3 2 NEG NONE NONE NORE NORML NEG	13 4 NEG NONE NONE NONE NORML NEG	25 4 NEG NONE NONE NORML NORML NEG
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium	ppm ppm scalar scalar scalar scalar scalar scalar ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m	>20 NONE NONE NORML NORML	3 2 NEG NONE NONE NORML NORML NEG 2	13 4 NEG NONE NONE NORML NORML NEG	25 4 NEG NONE NONE NORML NORML NEG 2
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron	ppm ppm scalar scalar scalar scalar scalar scalar ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m	>20 NONE NONE NORML NORML	3 2 NEG NONE NONE NORML NORML NEG 2 5	13 4 NEG NONE NONE NORML NORML NEG 4	25 4 NEG NONE NONE NORML NORML NEG 2 9
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	ppm ppm scalar scalar scalar scalar scalar scalar ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m	>20 NONE NONE NORML NORML	3 2 NEG NONE NONE NORML NORML NEG 2 5 0	13 4 NEG NONE NONE NONE NORML NORML NEG 4 6 0	25 4 NEG NONE NONE NORML NORML NEG 2 9 0
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum	ppm ppm scalar scalar scalar scalar scalar scalar ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m	>20 NONE NONE NORML NORML	3 2 NEG NONE NONE NORML NORML NEG 2 5 0 <1	13 4 NEG NONE NONE NORML NORML NEG 4 6 0 1	25 4 NEG NONE NONE NORML NORML NEG 2 9 0 2
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese	ppm ppm scalar scalar scalar scalar scalar ppm ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 NONE NONE NORML NORML	3 2 NEG NONE NONE NORML NORML NEG 2 5 0 2 5 0 2	13 4 NEG NONE NONE NORML NORML NEG 4 6 0 1 1	25 4 NEG NONE NONE NORML NORML NEG 2 9 0 2 2 9 0
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium	ppm ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 NONE NONE NORML NORML	3 2 NEG NONE NONE NORML NORML NEG 2 5 0 <1 <1 <1 5	13 4 NEG NONE NONE NORML NORML NEG 4 6 0 1 1 1	25 4 NEG NONE NONE NORML NORML NEG 2 9 0 2 2 9 0 2 2 1 17
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Manganese Magnesium	ppm ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 NONE NONE NORML NORML	3 2 NEG NONE NONE NORML NORML 2 5 0 2 5 0 <1 <1 5 5 659	13 4 NEG NONE NONE NORML NORML NEG 4 6 0 1 1 1 1 1 1 4 593	25 4 NEG NONE NONE NORML NORML NEG 2 9 0 2 2 3 9 0 2 2 4 1 7 9 0 1 2 1 7 9
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 NONE NONE NORML NORML	3 2 NEG NONE NONE NORML NORML 2 5 0 2 5 0 <1 <1 <1 5 659 388	13 4 NEG NONE NONE NORML NORML NEG 4 6 0 1 1 1 1 14 593 701	25 4 NEG NONE NONE NORML NORML NEG 2 9 0 2 2 9 0 2 2 1 17 798 440
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 NONE NONE NORML NORML	3 2 NEG NONE NONE NORML NORML 2 2 5 0 <1 <1 <1 5 659 388 264	13 4 NEG NONE NONE NORM NORM NORM NORM 1 1 1 1 1 1 593 701 231	25 4 NEG NONE NONE NORML NORML NEG 2 9 0 2 2 9 0 2 2 1 17 798 440 338
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm pm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 NONE NONE NORML NORML	3 2 NEG NONE NONE NORML NORML 2 2 5 0 2 5 0 4 1 5 6 5 9 388 264 4068	13 4 NEG NONE NONE NORML NORML NEG 4 6 0 1 1 1 1 1 593 701 231 2282	25 4 NEG NONE NONE NORML NORML NEG 2 9 0 2 2 3 9 0 2 2 4 1 7 98 4 40 338 2651

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Submitted By: CLAYTON SMITH





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 Certificate L2367
 Test Package
 : CONST

 To discuss this sample report, contact Customer Service at 1-800-237-1369.
 tim.byles@

 \* - 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)

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

Received

Diagnosed

Tested

: 15 Apr 2024

: 16 Apr 2024

: 17 Apr 2024 - Sean Felton

Laboratory

Sample No.

Lab Number : 06149144

Unique Number : 10979222

: ASC0007134

Submitted By: CLAYTON SMITH Page 2 of 2