WEAR
CONTAMINATION
FLUID CONDITION

ABNORMAL

ABNORMAL

NORMAL

[SPM702306]

SENNEBOGEN 835 835.0.3213

Left Final Drive

Test UOM Method Limit/Rm Current History1 History2	Left Final Drive GEAR OIL SAE 80W90 (GAL)							
Sample Number Client Info VCP446153		Test	UOM	Method	I imit/Abn	Current	History1	History2
Sample Date Client Info Sample Date Client Info Sample Date Client Info Sample Date								
Machine Age hrs Client Info 2305	The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.	•						
Oil Age hrs Client Info O		·	hrs			•		
Filter Age		•						
Oil Changed Client Info Not Changed Sample Status Not Changed Sample Status Not Changed Not Chang		ŭ						
Sample Status		· ·		Client Info		Changed		
Sample Status		Filter Changed		Client Info		Not Changd		
Chromium ppm ASTM DS185m >10 10 Nickel ppm ASTM DS185m >10 <1 Silver ppm ASTM DS185m >10 <1 Silver ppm ASTM DS185m >10 <1 Silver ppm ASTM DS185m >2 ASTM DS185m >0 ASTM		•				-		
Chromium ppm ASTM DS185m >10 10 Nickel ppm ASTM DS185m >10 <1 Silver ppm ASTM DS185m >10 <1 Silver ppm ASTM DS185m >10 <1 Silver ppm ASTM DS185m >2 ASTM DS185m >0 ASTM		· · · · · · · · · · · · · · · · ·						
Nickel ppm ASTM D5185m >10 <1 Titanium ppm ASTM D5185m >2 2 Aluminum ppm ASTM D5185m >2 0 Copper ppm ASTM D5185m >5 0 Copper ppm ASTM D5185m >5 0 Vanadium ppm ASTM D5185m >5 0 Vanadium ppm ASTM D5185m >10 0 Vanadium ppm ASTM D5185m >10 0 Value Pvisual NONE Visual NONE Visual NONE Potassium ppm ASTM D5185m >0 2 12 Sit scalar Visual NONE Debris scalar Visual NONE NONE Debris scalar Visual NONE NONE Appearance scalar Visual NORML NORML Appearance scalar Visual NORML NORML Appearance scalar Visual NORML NORML Appearance scalar Visual NORML NORML Appearance scalar Visual NORML NORML Appearance scalar Visual NORML NORML	WEAR	Iron	ppm			<u>▲</u> 518		
Titanium	Gear wear is indicated. All other component wear rates are normal.	Chromium	ppm	ASTM D5185m	>10	10		
Silver			ppm		>10			
Aluminum ppm ASTM D5185m >25 0 0								
Lead ppm ASTM D5185n >25 0			ppm					
Copper			ppm					
Tin			ppm					
Vanadium ppm ASTM D5185m -1 White Metal scalar *Visual NONE NONE NONE Vellow Metal scalar *Visual NONE NONE NONE Vellow Metal scalar *Visual NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE Variation ppm ASTM D5185m >20 12 NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE			ppm					
White Metal Scalar *Visual NONE NONE Yellow Metal Scalar *Visual NONE NONE NONE Yellow Metal Scalar *Visual NONE NONE NONE NONE NONE NONE NONE NONE Yellow Metal Scalar *Visual NONE NONE Yellow Metal Scalar *Visual NONE NONE Yellow Metal Scalar *Visual NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE					>10			
Yellow Metal scalar "Visual NONE NONE								
Silicon ppm ASTM D5185m >75 128								
Potassium pm ASTM D5185m >20 12		Yellow Metal	scalar	*Visual	NONE	NONE		
Water WC Method >0.2 NEG Silt	CONTAMINATION Elemental levels of silicon (Si) and aluminum (Al) indicate aluminasilicate (coarse dirt) ingress.	Silicon	ppm	ASTM D5185m	>75	128		
Water WC Method Solit Scalar Visual NONE NONE Silt Scalar Visual NONE NONE Sand/Dirt Scalar Visual NONE NONE Sand/Dirt Scalar Visual NONE NONE Sand/Dirt Scalar Visual NORML NORML NORML Scalar Visual NORML Sca		Potassium	ppm	ASTM D5185m	>20	12		
Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORML NORML NORML Appearance scalar *Visual NORML NOR		Water		WC Method	>0.2	NEG		
Sand/Dirt scalar *Visual NONE NONE		Silt	scalar	*Visual	NONE	NONE		
Appearance Scalar *Visual NORML NORM		Debris	scalar	*Visual	NONE	NONE		
Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual >0.2 NEG NEG -		Sand/Dirt	scalar	*Visual	NONE	NONE		
Emulsified Water scalar *Visual >0.2 NEG		Appearance	scalar	*Visual	NORML	NORML		
Sodium ppm ASTM D5185m >170 4		Odor	scalar	*Visual	NORML	NORML		
Boron ppm ASTM D5185m 400 <1 Barium ppm ASTM D5185m 200 2 Molybdenum ppm ASTM D5185m 12 2 Manganese ppm ASTM D5185m 12 14 Calcium ppm ASTM D5185m 150 107 Phosphorus ppm ASTM D5185m 1650 374 Zinc ppm ASTM D5185m 125 39 Sulfur ppm ASTM D5185m 22500 12804		Emulsified Water	scalar	*Visual	>0.2	NEG		
Boron ppm ASTM D5185m 400 <1 Barium ppm ASTM D5185m 200 2 Molybdenum ppm ASTM D5185m 12 2 Manganese ppm ASTM D5185m 12 14 Calcium ppm ASTM D5185m 150 107 Phosphorus ppm ASTM D5185m 1650 374 Zinc ppm ASTM D5185m 125 39 Sulfur ppm ASTM D5185m 22500 12804	FLUID CONDITION	Sodium	maa	ASTM D5185m	>170	4		
Barium ppm ASTM D5185m 200 2 Molybdenum ppm ASTM D5185m 12 2 Manganese ppm ASTM D5185m 12 14 Magnesium ppm ASTM D5185m 150 107 Phosphorus ppm ASTM D5185m 1650 374 Zinc ppm ASTM D5185m 125 39 Sulfur ppm ASTM D5185m 22500 12804	The condition of the oil is acceptable for the time in service.				-			
Molybdenum ppm ASTM D5185m 12 2 Manganese ppm ASTM D5185m 6 Magnesium ppm ASTM D5185m 12 14 Calcium ppm ASTM D5185m 150 107 Phosphorus ppm ASTM D5185m 1650 374 Zinc ppm ASTM D5185m 125 39 Sulfur ppm ASTM D5185m 22500 12804								
Manganese ppm ASTM D5185m 6 Magnesium ppm ASTM D5185m 12 14 Calcium ppm ASTM D5185m 150 107 Phosphorus ppm ASTM D5185m 1650 374 Zinc ppm ASTM D5185m 125 39 Sulfur ppm ASTM D5185m 22500 12804								
Magnesium ppm ASTM D5185m 12 14 Calcium ppm ASTM D5185m 150 107 Phosphorus ppm ASTM D5185m 1650 374 Zinc ppm ASTM D5185m 125 39 Sulfur ppm ASTM D5185m 22500 12804								
Calcium ppm ASTM D5185m 150 107 Phosphorus ppm ASTM D5185m 1650 374 Zinc ppm ASTM D5185m 125 39 Sulfur ppm ASTM D5185m 22500 12804		_			12			
Phosphorus ppm ASTM D5185m 1650 374 Zinc ppm ASTM D5185m 125 39 Sulfur ppm ASTM D5185m 22500 12804								
Zinc ppm ASTM D5185m 125 39 Sulfur ppm ASTM D5185m 22500 12804								
Sulfur ppm ASTM D5185m 22500 12804								





Certificate L2367

Laboratory Sample No. Lab Number

: VCP446153 : 06212182 Unique Number : 11085046 Test Package : MOB 1

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 17 Jun 2024 **Tested** : 19 Jun 2024

: 19 Jun 2024 - Don Baldridge Diagnosed

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

ryan.wise@simsmm.com

Contact/Location: RYAN WISE - SIMCHIIL

SIMS METAL MANAGEMENT

2500 S. PAULINA

Contact: RYAN WISE

CHICAGO, IL

US 60608

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* - 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)