

OIL ANALYSIS REPORT

WEAR CONTAMINATION FLUID CONDITION **NORMAL NORMAL NORMAL**

[0164488]

CASE IH STEIGER 535 Z8F109453

Front Rear Lube System

Test	CASE CASE IH HY-TRAN ULTRA (90 GAL)					.,		
Sample Date Client Info	RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Date Client Info 97 Dec 282	Resample at the next service interval to monitor.	Sample Number		Client Info		TR06084966		
Cil Age hrs Cilent Info Mot Changed Filter Changed Cilent Info Mot Changed Cilent Info Cilent Info Mot Changed Cilent Info Cilent Info Mot Changed Cilent Info Cilent Info Cilent Info Mot Changed Cilent Info Cilent In		Sample Date		Client Info		07 Dec 2023		
Filter Age hrs Client Info Not Change Not Chang		Machine Age	hrs	Client Info		9250		
Cilchanged Cilent Info Not Changed Cilent Info Cilent Info Not Changed Cilent Info Cilent Info Cilent Info Not Changed Cilent Info Cilent Info Not Changed Cilent Info C		Oil Age	hrs	Client Info		4000		
Filter Changed Cample Status Callent Info Not Changed NORMAL Cample Status NORMAL Cample Status NORMAL Cample Status Cam		_	hrs	Client Info		1100		
Nome		_		Client Info		Not Changd		
Iron		Filter Changed		Client Info		_		
Chromium ppm ASTM 05185m 10 0 Nickel ppm ASTM 05185m 10 0 Tatanium ppm ASTM 05185m 10 0 Tatanium ppm ASTM 05185m 0 0 Aluminum ppm ASTM 05185m 10 1 0 Copper ppm ASTM 05185m 10 1 0 Copper ppm ASTM 05185m 10 1 Tatanium ppm ASTM 05185m 10 1 Vanadium ppm ASTM 05185m 10 0 Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value		Sample Status				NORMAL		
Chromium ppm ASTM 05185m 10 0 Nickel ppm ASTM 05185m 10 0 Tatanium ppm ASTM 05185m 10 0 Tatanium ppm ASTM 05185m 0 0 Aluminum ppm ASTM 05185m 10 1 0 Copper ppm ASTM 05185m 10 1 0 Copper ppm ASTM 05185m 10 1 Tatanium ppm ASTM 05185m 10 1 Vanadium ppm ASTM 05185m 10 0 Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value	WEAR	Iron	nnm	ASTM D5185m	>20	18		
Nickel ppm ASTM 05185m 10 0 Titanium ppm ASTM 05185m 0 0 Silver ppm ASTM 05185m 0 0 Aluminum ppm ASTM 05185m 10 5 Aluminum ppm ASTM 05185m 10 5 Aluminum ppm ASTM 05185m 10 5 Copper ppm ASTM 05185m 10 1 Copper ppm ASTM 05185m 10 1 Tin ppm ASTM 05185m 10 1 Tin ppm ASTM 05185m 10 1 Vanadium ppm ASTM 05185m 10 0 Visual NONE NONE Value Water Wo Method 0-1 NEG Value Visual NONE NONE Debris scalar Visual NORML NORML Debris scalar Visual NORML NORML Debris scalar Visual NORML NORML Debris scalar Visual NORML NORML Debris scalar Visual NORML NORML	WEAT							
Titanium ppm ASTM D5185m 0 Silver ppm ASTM D5185m 0 Aluminum ppm ASTM D5185m -10 5 Aluminum ppm ASTM D5185m -10 1 Copper ppm ASTM D5185m -75 21 Tin ppm ASTM D5185m -75 21 Vanadium ppm ASTM D5185m -70 -1 Value	All component wear rates are normal.							
Silver					710			
Aluminum ppm ASTM D5185m >10 5								
Lead ppm ASTM D5185m 75 21 Tin ppm ASTM D5185m 75 21 Vanadium ppm ppm ASTM D5185m 75 21 Vanadium ppm ASTM D5185m 75 21 Visual NONE NONE Visual NONE NONE Vanadium ppm ASTM D5185m 75 75 75 75 Vanadium ppm ASTM D5185m 75 Vanadium ppm ASTM D5185m 75 Vana					>10			
Copper								
Vanadium Vanadium		Copper		ASTM D5185m	>75	21		
White Metal Yellow Metal Scalar *Visual NONE NONE		Tin	ppm	ASTM D5185m	>10	<1		
Yellow Metal Scalar Visual NONE NO		Vanadium	ppm	ASTM D5185m		0		
Silicon ppm ASTM D5185m >20 9		White Metal	scalar	*Visual	NONE	NONE		
Potassium ppm ASTM D5185m >20 <1		Yellow Metal	scalar	*Visual	NONE	NONE		
Potassium ppm ASTM D5185m >20 <1	CONTAMINATION	0.11.		AOTA DE LOS				
Water WC Method Solt NONE N	CONTAMINATION							
Silt Scalar Visual NONE NONE NONE NONE Sand/Dirt Scalar Visual NORML NORML Scalar Visual NORML NORML Scalar Visual NORML NORML Scalar Visual NORML NORML Scalar Visual NoRML NoRML Scalar Visu	There is no indication of any contamination in the oil.		ppm					
Debris Scalar *Visual NONE NONE NONE Sand/Dirt Scalar *Visual NONE			cooler					
Sand/Dirt Scalar *Visual NONE NORE NORML Appearance Scalar *Visual NORML								
Appearance Scalar *Visual NORML NORM								
Odor scalar *Visual NORML NORML Fmulsified Water scalar *Visual >0.1 NEG								
Emulsified Water scalar *Visual >0.1 NEG		• •						
Sodium ppm ASTM D5185m 113								
Boron ppm ASTM D5185m 113								
Barium ppm ASTM D5185m 0 Molybdenum ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 1 Magnesium ppm ASTM D5185m 10 Calcium ppm ASTM D5185m 10 Calcium ppm ASTM D5185m 2923 Phosphorus ppm ASTM D5185m 801 Zinc ppm ASTM D5185m 801 Zinc ppm ASTM D5185m 0.0 209 Sulfur ppm ASTM D5185m 4004 Acid Number (AN) mg KOH/g ASTM D8045 0.39 Visc @ 40°C CSt ASTM D445 40 52.2 Visc @ 100°C CSt ASTM D445 6.3 8.4	FLUID CONDITION							
Molybdenum ppm ASTM D5185m 0 Manganese ppm ASTM D5185m 1 Magnesium ppm ASTM D5185m 10 Phosphorus ppm ASTM D5185m 2923 Phosphorus ppm ASTM D5185m 801 Zinc ppm ASTM D5185m 0.0 209 Sulfur ppm ASTM D5185m 4004 Sulfur ppm ASTM D5185m 4004 Visc @ 40°C cSt ASTM D445 40 52.2 Visc @ 100°C cSt ASTM D445 6.3 8.4								
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Zinc ppm ASTM D5185m 0.0 209 Sulfur ppm ASTM D5185m 4004 Acid Number (AN) mg KOH/g ASTM D8045 0.39 Visc @ 40°C cSt ASTM D445 40 52.2 Visc @ 100°C cSt ASTM D445 6.3 8.4								
Sulfur ppm ASTM D5185m 4004 Acid Number (AN) mg KOH/g ASTM D8045 0.39 Visc @ 40°C cSt ASTM D445 40 52.2 Visc @ 100°C cSt ASTM D445 6.3 8.4					0.0			
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Visc @ 40°C cSt ASTM D445 40 52.2 Visc @ 100°C cSt ASTM D445 6.3 8.4								
Visc @ 100°C cSt ASTM D445 6.3 8.4		Visc @ 40°C			40			
Viscosity Index (VI) Scale ASTM D2270 103 135			cSt			8.4		
		Viscosity Index (VI)	Scale	ASTM D2270	103	135		





Laboratory Sample No.

Lab Number : 06084966

Unique Number : 10872411

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : TR06084966 Received **Tested**

: 09 Feb 2024 Diagnosed

: 12 Feb 2024 : 12 Feb 2024 - Jonathan Hester

LARRY SCHMIDT 8703 HIGHWAY 61 ALLIGATOR, MS US 38720-9700 Contact: LARRY SCHMIDT

Test Package : MOB 2 (Additional Tests: KV100, VI) To discuss this sample report, contact Customer Service at 1-800-827-0711.

LARRYWSCHMIDT86@YAHOO.COM T:

* - 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)

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