WEAR CONTAMINATION **FLUID CONDITION**

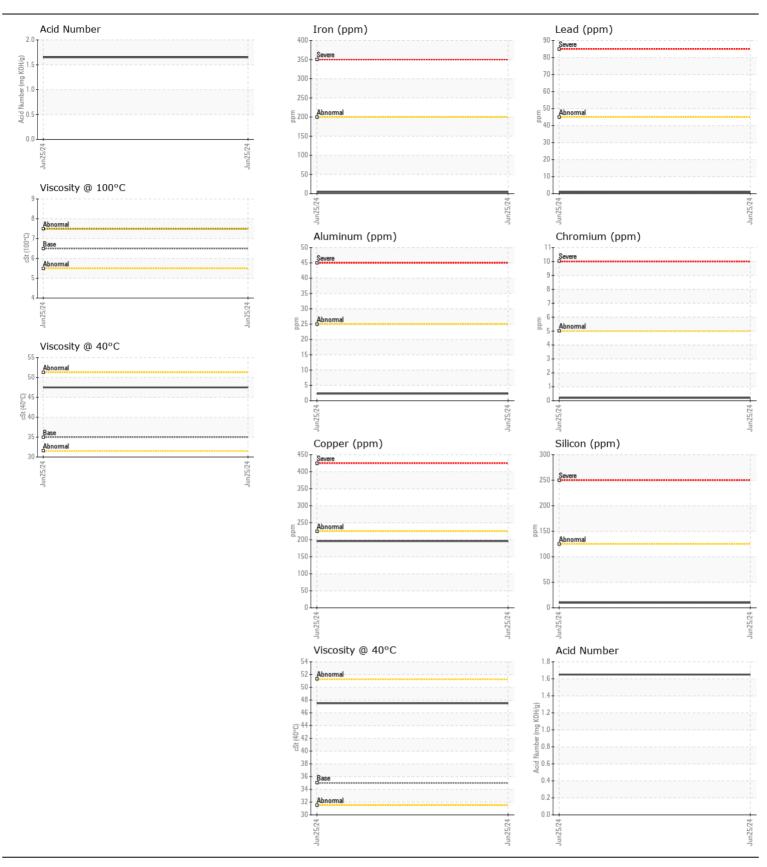
NORMAL NORMAL NORMAL

Machine Id

IH M10A 01
Component
Transmission (Manual)

OIL ANALYSIS REPORT

Machine Age hrs Client Info 475 Oil Age hrs Client Info 100 Filter Age hrs Client Info 100 Oil Changed Client Info Not Changd Filter Changed Client Info Not Changd Sample Status NORMAL WEAR	SAE 10W (5 GAL)							
Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.	RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Date Client Info 25 Jun 2024		Sample Number		Client Info				
Machine Age Ins Client Info 475 100	brand, type, and viscosity of the oil on your next sample.			Client Info		25 Jun 2024		
Filter Age		Machine Age	hrs	Client Info		475		
Dichanged Client Info Not Changed No		Oil Age	hrs	Client Info		100		
Filter Changed Sample Status		Filter Age	hrs	Client Info		100		
Normal N		Oil Changed		Client Info		Not Changd		
Iron		Filter Changed		Client Info		Not Changd		
All component wear rates are normal. Chromium ppm ASTM DS185m 55 0 0 0 0 0 0 0 0		Sample Status				NORMAL		
All component wear rates are normal. Chromium ppm ASTM DS185m 55 0 0 0 0 0 0 0 0	WEAR							
Nickel ppm ASTM 05185m >5 0 Titanium ppm ASTM 05185m >5 0 Titanium ppm ASTM 05185m >7 0 Aluminum ppm ASTM 05185m >25 2 Copper ppm ASTM 05185m >225 196 Tin ppm ASTM 05185m >225 196 Tin ppm ASTM 05185m >225 196 Tin ppm ASTM 05185m >10 0 Vanadium ppm ASTM 05185m >10 0 Value Visual NONE NONE Value Visual NONE NONE Value Visual NONE NONE Silt Scalar Visual NONE NONE Debris Scalar Visual NONE NONE Debris Scalar Visual NONE NONE Debris Scalar Visual NONE NONE Depris Scalar Visual NONE NONE Depris Scalar Visual NONE NONE Depris Scalar Visual NONE NONE Depris Scalar Visual NONE NONE Depris Scalar Visual NONE NONE Depris Scalar Visual NONE NONE	WEAR							
Titanium ppm ASTM DS185m 7 0	All component wear rates are normal.		ppm					
Silver			ppm		>5			
Aluminum ppm ASTM D5185m >25 2			ppm					
Lead ppm ASTM D5185m 245 196 Tin ppm ASTM D5185m 225 196 Vanadium ppm ASTM D5185m 0 0 Vanadium ppm ASTM D5185m 0 0 Vanadium ppm ASTM D5185m 0 Value Visual NONE NONE Value Potassium ppm ASTM D5185m 125 10 Value Potassium ppm ASTM D5185m 125 10 Value Potassium ppm ASTM D5185m 20 2 Value Visual NONE NONE Value Visual NONE NONE Sit scalar Visual NONE NONE Sit scalar Visual NONE NONE Sand/D1t scalar Visual NONE NONE Appearance scalar Visual NONE NONE Appearance scalar Visual NORML 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 Appearance scalar Visual NORML NORML Appearance scalar Visual NORML NORML Appearance scalar Visual NORML NORML								
Copper								
Tin ppm ASTM D5185m >10 0								
Vanadium ppm ASTM D5185m NONE NONE								
White Metal Scalar *Visual NONE NO					>10			
Yellow Metal Scalar *Visual NONE NONE						-		
Silicon ppm ASTM D5185m 2-20 2								
Potassium		Yellow Metal	scalar	*Visual	NONE	NONE		
Potassium	CONTAMINATION	Silicon	maa	ASTM D5185m	>125	10		
Water Silt Scalar *Visual NONE N		Potassium		ASTM D5185m	>20	2		
Debris Scalar *Visual NONE NONE Sand/Dirt Scalar *Visual NONE NONE Sand/Dirt Scalar *Visual NONE NONE Sand/Dirt Scalar *Visual NONE NORE Scalar *Visual NORML Scal	There is no indication of any contamination in the fluid.	Water				NEG		
Sand/Dirt Scalar *Visual NONE NONE Appearance Scalar *Visual NORML NORM		Silt	scalar	*Visual	NONE	NONE		
Appearance Scalar Visual NORML NORML		Debris	scalar	*Visual	NONE	NONE		
Odor		Sand/Dirt	scalar	*Visual	NONE	NONE		
Emulsified Water scalar *Visual >0.1 NEG		Appearance	scalar	*Visual	NORML	NORML		
Sodium ppm ASTM D5185m D Boron ppm ASTM D5185m D Barium ppm ASTM D5185m D Molybdenum ppm ASTM D5185m D Magnesium ppm ASTM D5185m D Magnesium ppm ASTM D5185m D Magnesium ppm ASTM D5185m D Calcium ppm ASTM D5185m D Calcium ppm ASTM D5185m D D D Calcium ppm ASTM D5185m D D D Calcium ppm ASTM D5185m D D D Calcium ppm ASTM D5185m D D D Calcium ppm ASTM D5185m D D D Calcium ppm ASTM D5185m D D D Calcium D D D D D D Calcium D D D D D D D Calcium D D D D D D D D Calcium D D D D D D D D D		Odor	scalar	*Visual	NORML	NORML		
Boron ppm ASTM D5185m 13 Molybdenum ppm ASTM D5185m 0 Manganese ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 95 Calcium ppm ASTM D5185m 2862 Phosphorus ppm ASTM D5185m 930 Zinc ppm ASTM D5185m 1276 Sulfur ppm ASTM D5185m 3862 Sulfur ppm ASTM D5185m 3862 Visc @ 40°C cSt ASTM D445 35.0 47.5 Visc @ 100°C cSt ASTM D445 6.5 7.5		Emulsified Water	scalar	*Visual	>0.1	NEG		
Boron ppm ASTM D5185m 13 Molybdenum ppm ASTM D5185m 0 Manganese ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 95 Calcium ppm ASTM D5185m 2862 Phosphorus ppm ASTM D5185m 930 Zinc ppm ASTM D5185m 1276 Sulfur ppm ASTM D5185m 3862 Sulfur ppm ASTM D5185m 3862 Visc @ 40°C cSt ASTM D445 35.0 47.5 Visc @ 100°C cSt ASTM D445 6.5 7.5	ELUID CONDITION	Sodium	nnm	ACTM DE105m		0		
Barium ppm ASTM D5185m 0 Molybdenum ppm ASTM D5185m 3 Manganese ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 95 Calcium ppm ASTM D5185m 2862 Phosphorus ppm ASTM D5185m 930 Zinc ppm ASTM D5185m 1276 Sulfur ppm ASTM D5185m 3862 Acid Number (AN) mg KOH/g ASTM D5185m 1.65 Visc @ 40°C CSt ASTM D445 35.0 47.5 Visc @ 100°C CSt ASTM D445 6.5 7.5	I LOID CONDITION							
Molybdenum ppm ASTM D5185m 3 Manganese ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 95 Calcium ppm ASTM D5185m 2862 Phosphorus ppm ASTM D5185m 930 Zinc ppm ASTM D5185m 1276 Sulfur ppm ASTM D5185m 3862 Acid Number (AN) mg KOH/g ASTM D8045 1.65 Visc @ 40°C cSt ASTM D445 35.0 47.5 Visc @ 100°C cSt ASTM D445 6.5 7.5	Confirm oil type. The AN level is acceptable for this fluid.					_		
Manganese ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 95 Calcium ppm ASTM D5185m 2862 Phosphorus ppm ASTM D5185m 930 Zinc ppm ASTM D5185m 1276 Sulfur ppm ASTM D5185m 3862 Acid Number (AN) mg KOH/g ASTM D8045 1.65 Visc @ 40°C cSt ASTM D445 35.0 47.5 Visc @ 100°C cSt ASTM D445 6.5 7.5								
Magnesium ppm ASTM D5185m 95 Calcium ppm ASTM D5185m 2862 Phosphorus ppm ASTM D5185m 930 Zinc ppm ASTM D5185m 1276 Sulfur ppm ASTM D5185m 3862 Acid Number (AN) mg KOH/g ASTM D8045 1.65 Visc @ 40°C cSt ASTM D445 35.0 47.5 Visc @ 100°C cSt ASTM D445 6.5 7.5		•						
Calcium ppm ASTM D5185m 2862 Phosphorus ppm ASTM D5185m 930 Zinc ppm ASTM D5185m 1276 Sulfur ppm ASTM D5185m 3862 Acid Number (AN) mg KOH/g ASTM D8045 1.65 Visc @ 40°C cSt ASTM D445 35.0 47.5 Visc @ 100°C cSt ASTM D445 6.5 7.5		_						
Phosphorus ppm ASTM D5185m 930 Zinc ppm ASTM D5185m 1276 Sulfur ppm ASTM D5185m 3862 Acid Number (AN) mg KOH/g ASTM D8045 1.65 Visc @ 40°C cSt ASTM D445 35.0 47.5 Visc @ 100°C cSt ASTM D445 6.5 7.5								
Zinc ppm ASTM D5185m 1276 Sulfur ppm ASTM D5185m 3862 Acid Number (AN) mg KOH/g ASTM D8045 1.65 Visc @ 40°C cSt ASTM D445 35.0 47.5 Visc @ 100°C cSt ASTM D445 6.5 7.5								
Sulfur ppm ASTM D5185m 3862 Acid Number (AN) mg KOH/g ASTM D8045 1.65 Visc @ 40°C cSt ASTM D445 35.0 47.5 Visc @ 100°C cSt ASTM D445 6.5 7.5		•						
Acid Number (AN) mg KOH/g ASTM D8045 1.65 Visc @ 40°C cSt ASTM D445 35.0 47.5 Visc @ 100°C cSt ASTM D445 6.5 7.5								
Visc @ 40°C cSt ASTM D445 35.0 47.5 Visc @ 100°C cSt ASTM D445 6.5 7.5								
Visc @ 100°C cSt ASTM D445 6.5 7.5		()			35.0			





Certificate L2367

Laboratory Sample No. Unique Number : 11099602

: TR06221405 Lab Number : 06221405

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 26 Jun 2024

Tested : 27 Jun 2024 Diagnosed

: 28 Jun 2024 - Angela Borella

WIE - WESTERN INDUSTRIAL EQUIPMENT

10761 N WILSON RD LAKE CITY, MI US 49651

Contact: JOHN HIGGINS

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

* - 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)

T:

F: