WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL

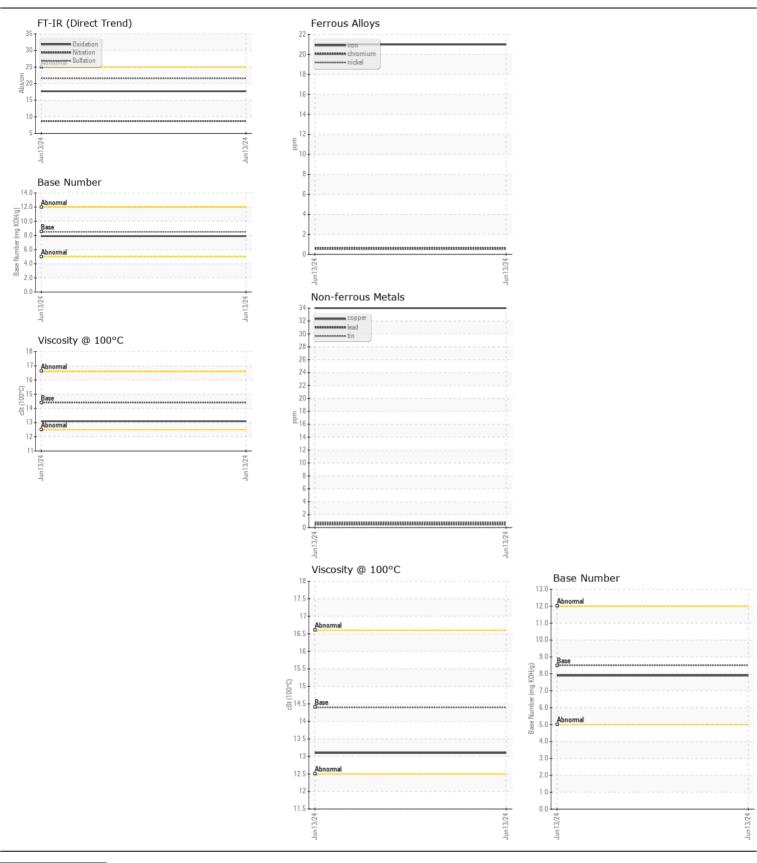
Machine Id

## WIRTGEN W150XFI 0813.0421 (S/N 0813-0421)

Diesel Engine

DIESEL ENGINE OIL SAE 15W40 (--- GAL)

Test	DIESEL ENGINE OIL SAE 15W40 ( GAL)							
Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.    Machine Age   hris   Client Info   0	RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Date   State   State	Resample at the next service interval to monitor. Please specify the	Sample Number		Client Info		JR0212070		
Machine Age   nrs   Client Info   0   0		Sample Date		Client Info		13 Jun 2024		
Filter Age		Machine Age	hrs	Client Info		573		
Client Info		Oil Age	hrs	Client Info		0		
Pitter Changed Sample Status		Filter Age	hrs	Client Info		0		
Metal levels are typical for a new component breaking in.		Oil Changed		Client Info		Changed		
Metal levels are typical for a new component breaking in.		Filter Changed		Client Info		Changed		
Metal levels are typical for a new component breaking in.   Nickel   Sprim   ASTM D5185m   2-0   <1       Nickel   Sprim   ASTM D5185m   2-1         Silver   Sprim   ASTM D5185m   3-1         Silver   Sprim   ASTM D5185m   3-1         Aluminium   Sprim   ASTM D5185m   3-1         Aluminium   Sprim   ASTM D5185m   3-1         Aluminium   Sprim   ASTM D5185m   3-1         Copper   Sprim   ASTM D5185m   3-20   10         Copper   Sprim   ASTM D5185m   3-20   10         Copper   Sprim   ASTM D5185m   3-20   3-4         Tin   Sprim   ASTM D5185m   3-15   <1         Vanadium   Sprim   ASTM D5185m   3-15   <1         Vanadium   Sprim   ASTM D5185m   3-15   <1         Value   Sprim   ASTM D5185m   3-15   <1         Vanadium   Sprim   ASTM D5185m   3-15   <1         Value   Sprim		Sample Status				NORMAL		
Metal levels are typical for a new component breaking in.   Nickel   ppm   ASTM 051856   >20   <1       Nickel   ppm   ASTM 051856   >4   <1       Titanium   ppm   ASTM 051856   >3   1       Alluminum   ppm   ASTM 051856   >30   1       Copper   ppm   ASTM 051856   >30   34       Tin   ppm   ASTM 051856   >15   <1       Valuad   NONE   NONE       Visual   NONE   NONE       Tin   ppm   ASTM 051856   >20   23       Tin   ppm   ASTM 051856   >20   24       Tin	WEAD	lvon		ACTM DE10Em	. 100	04		
Nickel   ppm   ASTM D6185m   0.4   0.1	WEAR							
Titanium   ppm   ASTM D5186m   34   1	Metal levels are typical for a new component breaking in.							
Silver					>4			
Aluminum   ppm   ASTM D5185m   >20   10								
Lead   ppm   ASTM D5185m   >40   <1         Copper   ppm   ASTM D5185m   >330   334       Tin   ppm   ASTM D5185m   >330   334       Vanadium   ppm   ASTM D5185m   >15   <1       Vanadium   ppm   ASTM D5185m   >25   14       Vanadium   ppm   ASTM D5185m   >20   23       Valuer   WC Method   >5   <1.0       Valuer   WC Method   >5								
Copper		Aluminum	ppm	ASTM D5185m	>20	10		
Tin			ppm					
Vanadium   Vanadium						34		
White Metal   Yellow Metal   Scalar   *Visual   NONE   N		Tin	ppm		>15	<1		
Yellow Metal   scalar   Visual   NONE   NONE             CONTAMINATION		Vanadium	ppm	ASTM D5185m		<1		
Silicon   ppm   ASTM D5185m   >25   14		White Metal	scalar	*Visual	NONE	NONE		
Potassium   ppm   ASTM D5185m   >20   23		Yellow Metal	scalar	*Visual	NONE	NONE		
Potassium   ppm   ASTM D5185m   >20   23	CONTAMINATION	Silicon	mqq	ASTM D5185m	>25	14		
Fuel   WC Method   >5   <1.0	Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no	Potassium		ASTM D5185m	>20			
Water   WC Method   Solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.   Water   Glycol   WC Method   NEG   WC Method   Soot %   %   *ASTM D7844   >3   0.1       NEG     NEG   Soot %   %   *ASTM D7844   >3   0.1     NEG			1-1-					
Glycol   WC Method   NEG         Soot %		Water						
Soot %								
Nitration   Abs/cm   *ASTM D7624   >20   8.7		•	%		>3			
Sulfation   Abs/.tmm   *ASTM D7415   >30   21.6         Silt   scalar   *Visual   NONE   NONE   NONE     Debris   scalar   *Visual   NONE   NONE   NONE     Sand/Dirt   scalar   *Visual   NONE   NONE   NONE   NONE     Appearance   scalar   *Visual   NORML   NOR								
Silt   scalar *Visual NONE   NONE   NONE   NONE   NONE   Sand/Dirt   scalar *Visual NONE   NONE   NONE   Sand/Dirt   scalar *Visual NONE   NONE   NONE   Sand/Dirt   scalar *Visual NORML								
Debris   Scalar   *Visual   NONE   NONE   Sand/Dirt   Scalar   *Visual   NONE   NORML   NO								
Sand/Dirt   scalar   *Visual   NONE   NONE         Appearance   scalar   *Visual   NORML   N								
Appearance   Scalar   *Visual   NORML   NORM								
Codor   scalar *Visual   NORML   NORML   FEMULSIFIED   Scalar *Visual   Scalar *Visual *Scalar *Scalar *Scalar *Visual *Scalar *								
Emulsified Water   scalar   *Visual   >0.2   NEG								
Boron   ppm   ASTM D5185m   250   191           Barium   ppm   ASTM D5185m   10   2           Molybdenum   ppm   ASTM D5185m   100   221           Manganese   ppm   ASTM D5185m   100   221           Manganese   ppm   ASTM D5185m   450   705           Calcium   ppm   ASTM D5185m   3000   1466           Phosphorus   ppm   ASTM D5185m   1150   845						-		
Boron   ppm   ASTM D5185m   250   191           Barium   ppm   ASTM D5185m   10   2           Molybdenum   ppm   ASTM D5185m   100   221           Manganese   ppm   ASTM D5185m   100   221           Manganese   ppm   ASTM D5185m   450   705           Calcium   ppm   ASTM D5185m   3000   1466           Phosphorus   ppm   ASTM D5185m   1150   845								
Barium   ppm   ASTM D5185m   10   2         Molybdenum   ppm   ASTM D5185m   10   2         Manganese   ppm   ASTM D5185m   100   221         Manganese   ppm   ASTM D5185m   450   705         Calcium   ppm   ASTM D5185m   3000   1466         Phosphorus   ppm   ASTM D5185m   1150   845	FLUID CONDITION							
oil. The condition of the oil is suitable for further service.    Molybdenum   ppm   ASTM D5185m   100   221         Manganese   ppm   ASTM D5185m   450   705         Calcium   ppm   ASTM D5185m   3000   1466         Phosphorus   ppm   ASTM D5185m   1150   845	, ,							
Manganese         ppm         ASTM D5185m         2             Magnesium         ppm         ASTM D5185m         450         705             Calcium         ppm         ASTM D5185m         3000         1466             Phosphorus         ppm         ASTM D5185m         1150         845								
Magnesium         ppm         ASTM D5185m         450         705             Calcium         ppm         ASTM D5185m         3000         1466             Phosphorus         ppm         ASTM D5185m         1150         845		-			100			
Calcium         ppm         ASTM D5185m         3000         1466             Phosphorus         ppm         ASTM D5185m         1150         845		-			450			
Phosphorus         ppm         ASTM D5185m         1150         845		-						
Zinc ppm ASTM D5185m 1350   <b>1051</b>								
Sulfur         ppm         ASTM D5185m         4250         3055								
Oxidation								
Base Number (BN) mg KOH/g ASTM D2896 8.5 7.9								
Visc @ 100°C cSt ASTM D445 14.4 13.1		Visc @ 100°C	cSt	ASTM D445	14.4	13.1		







Certificate L2367

Laboratory

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No.

: JR0212070 Lab Number : 06213081 Unique Number : 11085945

Received **Tested** Diagnosed

: 19 Jun 2024 Test Package : CONST (Additional Tests: TBN)

: 19 Jun 2024 - Wes Davis

: 18 Jun 2024

JRE - ASHLAND 11047 LEADBETTER RD ASHLAND, VA US 23005

Contact: DAVID ZIEG To discuss this sample report, contact Customer Service at 1-800-237-1369. dzieg@jamesriverequipment.com

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (804)798-6001 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (804)798-0292