

# WIRTGEN WR250i 11WR0260

#### Component Hydraulic System

#### HITACHI HYDRAULIC SUPER EX 46HN (--- GAL)

RECOMMENDATION	Test
	Sam
Resample at the next service interval to monitor.	Sam
	Mac
	Oil A
	Filte
	Oil (
	Filte
	Sam
WEAR	PQ
AU	Iron
All component wear rates are normal.	Chro
	Nick
	Titar
	Silve
	Alun

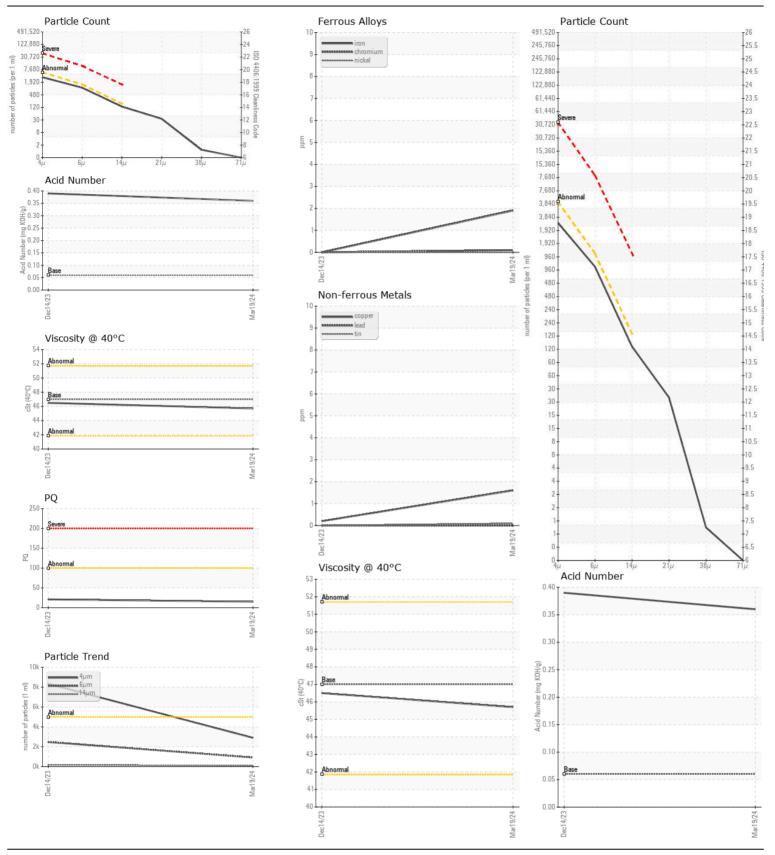
### CONTAMINATION

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

## FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sample Number         Client Info         JR0200332         JR0179577            Sample Date         Client Info         19 Mar 2024         14 Dec 2023            Sample Age         hrs         Client Info         0         118            Dil Age         hrs         Client Info         0         118            Dil Changed         Client Info         0         118            Dil Changed         Client Info         Not Changed             Sample Status         Client Info         Not Changed             Tron         ppm         ASTM D5185m         >20         2         0            Silver         ppm         ASTM D5185m         >10         0         0            Silver         ppm         ASTM D5185m         >10         0         0            Sopper         ppm         ASTM D5185m         >10         0         0            Copper         ppm         ASTM D5185m         >10         0             Solitor         ppm         ASTM D5185m         >10         0 </th <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>							
Sample Date         Client Info         19 Mar 2024         14 Dec 2023            Wachine Age         hrs         Client Info         0         118            Dil Age         hrs         Client Info         0         118            Dil Changed         Client Info         0         118            Dil Changed         Client Info         Not Changed         Changed            Sample Status         ASTM DB18M          Changed            PQ         ASTM DB18M         >20         2         0            Simole Status         ASTM D518Sm         >10         0         0            Viskel         ppm         ASTM D518Sm         >10         0         0            Silver         ppm         ASTM D518Sm         >10         0         0            Auminum         ppm         ASTM D518Sm         >10         C         1            Auadium         ppm         ASTM D518Sm         >10         C         1            Auadium         ppm         ASTM D518Sm         >20         0	Test	UOM	Method	Limit/Abn	Current	History1	History2
Machine Age         hrs         Client Info         458         118            Di Age         hrs         Client Info         0         118            Di Changed         Client Info         0         118            Di Changed         Client Info         Not Changed         Changed         Changed         Changed         Changed            Sample Status         Visual         ATTENTION          NORMAL         ATTENTION            PQ         ASTM D5185m         >10         0         0            Siker         ppm         ASTM D5185m         >10         0         0            Siker         ppm         ASTM D5185m         >10         0         0            Siker         ppm         ASTM D5185m         >10         0         0            Copper         ppm         ASTM D5185m         >10         0         0            Varadium         ppm         ASTM D5185m         >10         0         0            Varadium         ppm         ASTM D5185m         >20         C1         <1	Sample Number		Client Info		JR0200332	JR0179577	
Dil Age         hrs         Client Info         0         118            Dil Changed         Client Info         Not Changed         Not Changed            Dil Changed         Client Info         Not Changed          Anaged            Sample Status         Not Manged         ATTENTION              Port         ASTM D5185m         >20         2         0            Port         ASTM D5185m         >10         <1         0            Silver         ppm         ASTM D5185m         >10         0         0            Silver         ppm         ASTM D5185m         >10         0         0            Copper         ppm         ASTM D5185m         >10         0         0            Vanadium         ppm         ASTM D5185m         >10         0         0            Vanadium         ppm         ASTM D5185m         >20         0         0            Variadium         ppm         ASTM D5185m         >20         0         0            Variadium <td< th=""><th>Sample Date</th><th></th><th>Client Info</th><th></th><th>19 Mar 2024</th><th>14 Dec 2023</th><th></th></td<>	Sample Date		Client Info		19 Mar 2024	14 Dec 2023	
Filter Age         hrs         Client Info         Not Changd         Not Changd            Di Changed         Client Info         Not Changd          Not Changd            Sample Status         Client Info         Not Changd          Not Changd            Sample Status         Client Info         Not Changd          Not Changd            PQ         ASTM D5185m         20         2         0            Sitwer         ppm         ASTM D5185m         >10         -1         0            Nickel         ppm         ASTM D5185m         >10         0         0            Auminum         pm         ASTM D5185m         >10         0         0            Auminum         pm         ASTM D5185m         >10         0         0            Auminum         pm         ASTM D5185m         >10         0         0            Auminum         ppm         ASTM D5185m         >20         <1             Aunotim         ppm         ASTM D5185m         >20         0         0	Machine Age	hrs	Client Info		458	118	
Dil Changed iller Changed         Client Info         Not Changed Changed         Not Changed Changed            Sample Status         Client Info         Changed         ATTENTION            PQ         ASTM D8184         15         21            PQ         ASTM D5185m         >20         2         0            Chromium         ppm         ASTM D5185m         >10         C1         0            Vickel         ppm         ASTM D5185m         >10         0         0            Silver         ppm         ASTM D5185m         >10         0         0            Solver         ppm         ASTM D5185m         >10         0         0            Copper         ppm         ASTM D5185m         >10         <1         0            Vanadium         ppm         ASTM D5185m         >20         <1             Value         scalar         *Visual         NONE         NONE         NONE            Value         scalar         *Visual         NONE         NONE	Oil Age	hrs	Client Info		0	118	
Filter ChangedClient InfoChangedChangedSample StatusASTM D8184NORMALATTENTIONPQASTM D81841521ronppmASTM D5185m>10<10ShreeppmASTM D5185m>1000SilverppmASTM D5185m>1000SilverppmASTM D5185m>1000SilverppmASTM D5185m>1000CopperppmASTM D5185m>1000CopperppmASTM D5185m>1000VanadiumppmASTM D5185m>20<1Vallow Metalscalar*VisualNONENONENONEVellow Metalscalar*VisualNONENONENONEParticles >4µmASTM D5185m>2000Particles >4µmASTM D7647>13009182477Particles >4µmASTM D7647>1012Particles >5µmASTM D7647>1012Particles >1µmASTM D7647>1012Particles >1µmASTM D7647>1012Particles >1µmASTM D7647>1012Particles >1µmASTM D5185mC00 <th>Filter Age</th> <th>hrs</th> <th>Client Info</th> <th></th> <th>0</th> <th>118</th> <th></th>	Filter Age	hrs	Client Info		0	118	
Sample Status         NORMAL         ATTENTION            PQ         ASTM D6184         15         21            ron         ppm         ASTM D5185m         >20         2         0            Nickel         ppm         ASTM D5185m         >10         C1         0            Nickel         ppm         ASTM D5185m         >10         0         0            Silver         ppm         ASTM D5185m         >10         0         0            Auminum         ppm         ASTM D5185m         >10         0         0            Auminum         ppm         ASTM D5185m         >10         0         0            Auminum         ppm         ASTM D5185m         >10         0         0            Anadium         ppm         ASTM D5185m         >0         0         0            Varancium         ppm         ASTM D5185m         >20         <1         <1            Potassium         ppm         ASTM D7647         >100         0             Particles >4µm </th <th>Oil Changed</th> <th></th> <th>Client Info</th> <th></th> <th>Not Changd</th> <th>Not Changd</th> <th></th>	Oil Changed		Client Info		Not Changd	Not Changd	
PQ         ASTM D8184         15         21            ron         ppm         ASTM D8185m         >20         2         0            Chromium         ppm         ASTM D5185m         >10         0         0            Nickel         ppm         ASTM D5185m         >10         0         0            Nickel         ppm         ASTM D5185m         >10         0         0            Aluminum         ppm         ASTM D5185m         >10         0         0            Lead         ppm         ASTM D5185m         >10         0         0            Vanadium         ppm         ASTM D5185m         >10         0         0            Vanadium         ppm         ASTM D5185m         >20         0         0	Filter Changed		Client Info		Changed	Changed	
ron         ppm         ASTM D5185m         >20         2         0            Chromium         ppm         ASTM D5185m         >10         <1         0            Nickel         ppm         ASTM D5185m         0         0         0            Silver         ppm         ASTM D5185m         0         0         0            Lead         ppm         ASTM D5185m         >10         0         0            Lead         ppm         ASTM D5185m         >10         0         0            Vanadium         ppm         ASTM D5185m         >10         0         0            Vanadium         ppm         ASTM D5185m         >10         0         0            Vanadium         ppm         ASTM D5185m         >20         0         0            Vanadium         ppm         ASTM D5185m         >20         0         0            Vanadium         ppm         ASTM D5185m         >20         0         0            Particles >4µm         ASTM D7647         >5000         2895         8	Sample Status				NORMAL	ATTENTION	
ron         ppm         ASTM D5185m         >20         2         0            Chromium         ppm         ASTM D5185m         >10         <1         0            Nickel         ppm         ASTM D5185m         0         0         0            Silver         ppm         ASTM D5185m         0         0         0            Lead         ppm         ASTM D5185m         >10         0         0            Lead         ppm         ASTM D5185m         >10         0         0            Vanadium         ppm         ASTM D5185m         >10         0         0            Vanadium         ppm         ASTM D5185m         >10         0         0            Vanadium         ppm         ASTM D5185m         >20         0         0            Vanadium         ppm         ASTM D5185m         >20         0         0            Vanadium         ppm         ASTM D5185m         >20         0         0            Particles >4µm         ASTM D7647         >5000         2895         8							
Chromium         ppm         ASTM D5185m         >10         <1	PQ				-		
Nickel         ppm         ASTM D5185m         >10         0         0            Fitanium         ppm         ASTM D5185m         0         0            Silver         ppm         ASTM D5185m         >10         0         0            Aluminum         ppm         ASTM D5185m         >10         0         0            Lead         ppm         ASTM D5185m         >10         <1         0            Copper         ppm         ASTM D5185m         >10         <1         0            Vanadium         ppm         ASTM D5185m         >10         <1         0            Vanadium         ppm         ASTM D5185m         >20         <1         <1            Vanadium         ppm         ASTM D5185m         >20         0         0            Patioles setum         ppm         ASTM D5185m         >20         <1         <1            Patricles >4µm         ASTM D7647         >1300         918         2477            Patricles >514µm         ASTM D7647         >10         1         2	Iron	ppm					
Fitanium         ppm         ASTM D5185m         0         0            Silver         ppm         ASTM D5185m         >10         0         0            Aluminum         ppm         ASTM D5185m         >10         0         0            Lead         ppm         ASTM D5185m         >10         0         0            Copper         ppm         ASTM D5185m         >10         <1         0            Vanadium         ppm         ASTM D5185m         >10         <1         0            Vanadium         ppm         ASTM D5185m         >10         <1         0            Vanadium         ppm         ASTM D5185m         >20         0         0            Vanadium         ppm         ASTM D5185m         >20         0         0            Vanadium         ppm         ASTM D7647         >5000         2895         8336            Particles >4µm         ASTM D7647         >100         11         2            Particles >51µm         ASTM D7647         >10         1         2							
Silver         ppm         ASTM D5185m         0         0         0            Aluminum         ppm         ASTM D5185m         >10         0         0            ead         ppm         ASTM D5185m         >10         0         0            Copper         ppm         ASTM D5185m         >75         2         <1				>10	-		
Aluminum         ppm         ASTM D5185m         >10         0         0            Lead         ppm         ASTM D5185m         >10         0         0            Copper         ppm         ASTM D5185m         >75         2         <1            Vanadium         ppm         ASTM D5185m         >10         <1         0            Vanadium         ppm         ASTM D5185m         >10         <1         0            Vanadium         ppm         ASTM D5185m         >10         C1         <1            Valued         scalar         *Visual         NONE         NONE         NONE            Silicon         ppm         ASTM D5185m         >20         0         0            Patricles satum         pm         ASTM D5185m         >20         0         0            Patricles >4µm         ASTM D7647         >1300         918         2477            Patricles >14µm         ASTM D7647         >1300         918         2477            Patricles >14µm         ASTM D7647         >10         1					-	÷	
Lead         ppm         ASTM D5185m         >10         0         0            Copper         ppm         ASTM D5185m         >75         2         <1            Vanadium         ppm         ASTM D5185m         >10         <1         0            Vanadium         ppm         ASTM D5185m         >10         <1         0            Vanadium         ppm         ASTM D5185m         >10         <1         0            Valadium         ppm         ASTM D5185m         >20         <1         <1            Potassium         ppm         ASTM D5185m         >20         0         0            Particles >4µm         ASTM D7647         >5000         2895         8336            Particles >4µm         ASTM D7647         >100         114         17.3            Particles >4µm         ASTM D7647         >100         1         2            Particles >1µm         ASTM D7647         >100         1         2            Particles >1µm         ASTM D7647         >3         0         0      <	Silver				-		
Copper         ppm         ASTM D5185m         >75         2         <1					-		
Tin         ppm         ASTM D5185m         >10         <1	Lead			-	-	-	
Vanadium         ppm         ASTM D5185m         0         0            White Metal         scalar         *Visual         NONE         NONE         NONE            Yellow Metal         scalar         *Visual         NONE         NONE         NONE            Silicon         ppm         ASTM D5185m         >20         0         0            Potassium         ppm         ASTM D5185m         >20         0         0            Potassium         ppm         ASTM D5185m         >20         0         0            Patricles >4µm         ASTM D7647         >100         114         173            Patricles >5µm         ASTM D7647         >10         1         2            Patricles >3µm         ASTM D7647         >10         1         2            Patricles >71µm         ASTM D7647         >3         0         0            Solit         scalar         *Visual         NONE         NONE         NONE            Solit         scalar         *Visual         NOR         NORE <th>Copper</th> <th></th> <th></th> <th></th> <th>_</th> <th></th> <th></th>	Copper				_		
White Metal         scalar         *Visual         NONE         NONE         NONE            Yellow Metal         scalar         *Visual         NONE         NONE         NONE            Silicon         ppm         ASTM D5185m         >20         <1         <1            Potassium         ppm         ASTM D5185m         >20         0         0            Particles >4µm         ASTM D7647         >5000         2895         8336            Particles >14µm         ASTM D7647         >160         114         173            Particles >14µm         ASTM D7647         >10         1         2            Particles >38µm         ASTM D7647         >10         1         2            Particles >71µm         ASTM D7647         >3         0         0            Oli Cleanliness         ISO 4406 (c)         >917/14         19/17/14         20/18/15            Debris         scalar         *Visual         NONE         NONE         NONE            Codor         scalar         *Visual         NORM         NORML         NORM	Tin			>10			
Yellow Metalscalar*VisualNONENONENONENONESiliconppmASTM D5185m>2000PotassiumppmASTM D5185m>2000WaterWC Method>0.1NEGNEGParticles >4µmASTM D7647>500028958336Particles >6µmASTM D7647>160114173Particles >14µmASTM D7647>403048Particles >38µmASTM D7647>300Particles >71µmASTM D7647>300Particles >71µmASTM D7647>300Dil CleanlinessISO 4406 (c)>19/17/1420/18/15Siltscalar*VisualNONENONENONEDebrisscalar*VisualNONENONENONESand/Dirtscalar*VisualNORMLNORMLNORMLAppearancescalar*VisualNORMLNORMLNORMLNORMLSodiumppmASTM D5185m000BariumppmASTM D5185m110MolybdenumppmASTM D5185m<10ManganeseppmASTM D5185m1115PhosphorusppmASTM D5185m06163					-	÷	
Silicon         ppm         ASTM D5185m         >20         <1				-			
Potassium         ppm         ASTM D5185m         >20         0         0            Water         WC Method         >0.1         NEG         NEG            Particles >4µm         ASTM D7647         >5000         2895         8336            Particles >6µm         ASTM D7647         >1300         918         2477            Particles >6µm         ASTM D7647         >160         114         173            Particles >21µm         ASTM D7647         >40         30         48            Particles >38µm         ASTM D7647         >10         1         2            Particles >71µm         ASTM D7647         >3         0         0            Particles >71µm         ASTM D7647         >3         0         0            Particles >71µm         ASTM D7647         >3         0         0            Solit         scalar         *Visual         NONE         NONE         NONE            Debris         scalar         *Visual         NORM         NORML         NORML            Appearance	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Potassium         ppm         ASTM D5185m         >20         0         0            Water         WC Method         >0.1         NEG         NEG            Particles >4µm         ASTM D7647         >5000         2895         8336            Particles >6µm         ASTM D7647         >1300         918         2477            Particles >6µm         ASTM D7647         >160         114         173            Particles >21µm         ASTM D7647         >40         30         48            Particles >38µm         ASTM D7647         >10         1         2            Particles >71µm         ASTM D7647         >3         0         0            Particles >71µm         ASTM D7647         >3         0         0            Particles >71µm         ASTM D7647         >3         0         0            Solit         scalar         *Visual         NONE         NONE         NONE            Debris         scalar         *Visual         NORM         NORML         NORML            Appearance	Silioon	000	ACTM DE10Em	. 20	.1	-1	
Water         WC Method         >0.1         NEG         NEG            Particles >4µm         ASTM D7647         >5000         2895         8336            Particles >6µm         ASTM D7647         >1300         918         2477            Particles >6µm         ASTM D7647         >160         114         173            Particles >21µm         ASTM D7647         >40         30         48            Particles >38µm         ASTM D7647         >10         1         2            Particles >71µm         ASTM D7647         >3         0         0            Solit         scalar         *Visual         NONE         NONE         NONE            Debris         scalar         *Visual         NORML         NORML         NORML            Appearance         scalar							
Particles >4µm         ASTM D7647         >5000         2895         8336            Particles >6µm         ASTM D7647         >1300         918         2477            Particles >14µm         ASTM D7647         >160         114         173            Particles >21µm         ASTM D7647         >40         30         48            Particles >38µm         ASTM D7647         >10         1         2            Particles >71µm         ASTM D7647         >3         0         0            Particles >71µm         ASTM D7647         >3         0         0            Oil Cleanliness         ISO 4406 (c)         19/17/14         19/17/14         20/18/15            Solit         scalar         *Visual         NONE         NONE         NONE            Sand/Dirt         scalar         *Visual         NOR         NORML         NORML            Appearance         scalar         *Visual         NORML         NORML         NORML            Sodium         ppm         ASTM D5185m         0         0		ррп			-		
Particles >6 $\mu$ m       ASTM D7647       >1300       918       24777          Particles >14 $\mu$ m       ASTM D7647       >160       114       173          Particles >21 $\mu$ m       ASTM D7647       >40       30       48          Particles >38 $\mu$ m       ASTM D7647       >10       1       2          Particles >71 $\mu$ m       ASTM D7647       >3       0       0          Dil Cleanliness       ISO 4406 (c)       >19/17/14       19/17/14       20/18/15          Silt       scalar       *Visual       NONE       NONE       NONE          Soldroh       scalar       *Visual       NONE       NONE       NONE          Sand/Dirt       scalar       *Visual       NOR       NORM       NORML          Appearance       scalar       *Visual       NOR       NORML       NORML          Sodium       ppm       ASTM D5185m       0       0           Sodium       ppm       ASTM D5185m       I       0							
Particles >14µm         ASTM D7647         >160         114         173            Particles >21µm         ASTM D7647         >40         30         48            Particles >38µm         ASTM D7647         >10         1         2            Particles >71µm         ASTM D7647         >3         0         0            Particles >71µm         ASTM D7647         >3         0         0            Dil Cleanliness         ISO 4406 (c)         >19/17/14         19/17/14         20/18/15            Silt         scalar         *Visual         NONE         NONE         NONE            Debris         scalar         *Visual         NONE         NONE         NONE            Sand/Dirt         scalar         *Visual         NOR         NORML         NORML            Appearance         scalar         *Visual         NORML         NORML         NORML							
Particles >21µm       ASTM D7647       >40       30 $48$ Particles >38µm       ASTM D7647       >10       1       2          Particles >71µm       ASTM D7647       >3       0       0          Dil Cleanliness       ISO 4406 (c)       >19/17/14       19/17/14       20/18/15          Silt       scalar       *Visual       NONE       NONE       NONE          Debris       scalar       *Visual       NONE       NONE       NONE          Sand/Dirt       scalar       *Visual       NORE       NONE       NONE          Appearance       scalar       *Visual       NORM       NORML       NORML          Sodium       ppm       ASTM D5185m       NOR       NORML       NORML          Sodium       ppm       ASTM D5185m       1       0						-	
Particles >38μm         ASTM D7647         >10         1         2            Particles >71μm         ASTM D7647         >3         0         0            Dil Cleanliness         ISO 4406 (c)         >19/17/14         19/17/14         20/18/15            Silt         scalar         *Visual         NONE         NONE         NONE            Debris         scalar         *Visual         NONE         NONE         NONE            Sand/Dirt         scalar         *Visual         NONE         NONE         NONE            Appearance         scalar         *Visual         NORL         NORML         NORML            Appearance         scalar         *Visual         NORL         NORML         NORML            Appearance         scalar         *Visual         NORML         NORML         NORML            Appearance         scalar         *Visual         NORML         NORML         NORML            Boron         ppm         ASTM D5185m         1         0            Sodium         ppm         ASTM D5185m         0 <th></th> <th></th> <th></th> <th></th> <th></th> <th>-</th> <th></th>						-	
Particles >71µm         ASTM D7647         >3         0         0            Dil Cleanliness         ISO 4406 (c)         >19/17/14         19/17/14         20/18/15            Silt         scalar         *Visual         NONE         NONE         NONE            Debris         scalar         *Visual         NONE         NONE         NONE            Sand/Dirt         scalar         *Visual         NONE         NONE         NONE            Appearance         scalar         *Visual         NORL         NORML         NORML         NORML            Appearance         scalar         *Visual         NORL         NORML         NORML            Codor         scalar         *Visual         NORML         NORML         NORML            Sodium         ppm         ASTM D5185m         0.0         0            Sodium         ppm         ASTM D5185m         0         0            Sodium         ppm         ASTM D5185m         1         0            Marganese         ppm         ASTM D5185m         11						-	
Dil CleanlinessISO 4406 (c)>19/17/1419/17/1420/18/15Siltscalar*VisualNONENONENONEDebrisscalar*VisualNONENONENONESand/Dirtscalar*VisualNONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLAppearancescalar*VisualNORMLNORMLNORMLNORMLCoorscalar*VisualNORMLNORMLNORMLNORMLCodrscalar*Visual>0.1NEGNEGSodiumppmASTM D5185m00SodiumppmASTM D5185m00BariumppmASTM D5185m<10MarganeseppmASTM D5185m<10MagnesiumppmASTM D5185m1115PhosphorusppmASTM D5185m1115ZincppmASTM D5185m0345333SulfurppmASTM D5185m13861764Acid Number (AN)mg KOHgASTM D80450.060.360.39				-	-		
Siltscalar*VisualNONENONENONEDebrisscalar*VisualNONENONENONESand/Dirtscalar*VisualNONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLDoorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEGSodiumppmASTM D5185m10BoronppmASTM D5185m00BariumppmASTM D5185m00MaganeseppmASTM D5185m<<10MagnesiumppmASTM D5185m1115PhosphorusppmASTM D5185m0345333ZincppmASTM D5185m13861764SulfurppmASTM D5185m133610.39					-		
Debrisscalar*VisualNONENONENONESand/Dirtscalar*VisualNONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEGSodiumppmASTM D5185m10BoronppmASTM D5185m00BariumppmASTM D5185m00MolybdenumppmASTM D5185m<10MaganeseppmASTM D5185m<110PhosphorusppmASTM D5185m1115PhosphorusppmASTM D5185m0345333SulfurppmASTM D5185m13861764Acid Number (AN)mg KOH/gASTM D80450.060.360.39	Silt	scalar					
Sand/Dirtscalar*VisualNONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEGSodiumppmASTM D5185m10BoronppmASTM D5185m00BariumppmASTM D5185m00MolybdenumppmASTM D5185m<<10MaganeseppmASTM D5185m<6163CalciumppmASTM D5185m1115PhosphorusppmASTM D5185m0345333ZincppmASTM D5185m0.360.39SulfurppmASTM D5185m0.33	Debris				-		
Appearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEGSodiumppmASTM D5185m10BoronppmASTM D5185m00BariumppmASTM D5185m00MolybdenumppmASTM D5185m<10MaganeseppmASTM D5185m<110CalciumppmASTM D5185m6163PhosphorusppmASTM D5185m1115ZincppmASTM D5185m0345333SulfurppmASTM D5185m13861764Acid Number (AN)mg KOH/gASTM D80450.060.360.39	Sand/Dirt						
Normal         Scalar         *Visual         NORML         NORML         NORML         NORML            Emulsified Water         scalar         *Visual         >0.1         NEG         NEG            Sodium         ppm         ASTM D5185m         1         0            Boron         ppm         ASTM D5185m         0         0            Barium         ppm         ASTM D5185m         0         0            Molybdenum         ppm         ASTM D5185m         0         0            Magnesium         ppm         ASTM D5185m          <1         0            Phosphorus         ppm         ASTM D5185m          <1         0            Phosphorus         ppm         ASTM D5185m          <1         0            Phosphorus         ppm         ASTM D5185m          <11         15            Phosphorus         ppm         ASTM D5185m         0         345         333            Sulfur         ppm         ASTM D5185m         0.36         0.39	Appearance	scalar	*Visual	NORML	NORML		
Sodium         ppm         ASTM D5185m         1         0            Boron         ppm         ASTM D5185m         0         0            Barium         ppm         ASTM D5185m         0         0            Barium         ppm         ASTM D5185m         0         0            Molybdenum         ppm         ASTM D5185m          <1         0            Magnese         ppm         ASTM D5185m          <1         0            Magnesium         ppm         ASTM D5185m          61         63            Calcium         ppm         ASTM D5185m         11         15            Phosphorus         ppm         ASTM D5185m         827         279         271            Phosphorus         ppm         ASTM D5185m         0         345         333            Sulfur         ppm         ASTM D5185m         13         861         764            Acid Number (AN)         mg KOH/g         ASTM D8045         0.06         0.36         0.39	Odor			NORML	NORML		
Boron         ppm         ASTM D5185m         0         0            Barium         ppm         ASTM D5185m         0         0            Barium         ppm         ASTM D5185m         0         0            Molybdenum         ppm         ASTM D5185m          <1         0            Magnesium         ppm         ASTM D5185m          <1         0            Magnesium         ppm         ASTM D5185m          61         63            Calcium         ppm         ASTM D5185m         11         15            Phosphorus         ppm         ASTM D5185m         827         279         271            Phosphorus         ppm         ASTM D5185m         0         345         333            Sulfur         ppm         ASTM D5185m         13         861         764            Acid Number (AN)         mg KOH/g         ASTM D8045         0.06         0.36         0.39	Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	
Boron         ppm         ASTM D5185m         0         0            Barium         ppm         ASTM D5185m         0         0            Barium         ppm         ASTM D5185m         0         0            Molybdenum         ppm         ASTM D5185m          <1         0            Magnesium         ppm         ASTM D5185m          <1         0            Magnesium         ppm         ASTM D5185m          61         63            Calcium         ppm         ASTM D5185m         11         15            Phosphorus         ppm         ASTM D5185m         827         279         271            Phosphorus         ppm         ASTM D5185m         0         345         333            Sulfur         ppm         ASTM D5185m         13         861         764            Acid Number (AN)         mg KOH/g         ASTM D8045         0.06         0.36         0.39							
Barium         ppm         ASTM D5185m         O         0            Molybdenum         ppm         ASTM D5185m         <         <1         0            Manganese         ppm         ASTM D5185m         <         <1         0            Magnesium         ppm         ASTM D5185m          <1         0            Calcium         ppm         ASTM D5185m          61         63            Phosphorus         ppm         ASTM D5185m         11         15            Phosphorus         ppm         ASTM D5185m         827         279         271            Zinc         ppm         ASTM D5185m         0         345         333            Sulfur         ppm         ASTM D5185m         13         861         764            Acid Number (AN)         mg KOH/g         ASTM D8045         0.06         0.36         0.39	Sodium	ppm	ASTM D5185m		1	0	
Molybdenum         ppm         ASTM D5185m         <1	Boron	ppm	ASTM D5185m		0		
Manganese         ppm         ASTM D5185m         <1	Barium	ppm	ASTM D5185m		0		
Magnesium         ppm         ASTM D5185m         61         63            Calcium         ppm         ASTM D5185m         11         15            Phosphorus         ppm         ASTM D5185m         827         279         271            Zinc         ppm         ASTM D5185m         0         345         333            Sulfur         ppm         ASTM D5185m         13         861         764            Acid Number (AN)         mg KOH/g         ASTM D8045         0.06         0.36         0.39	Molybdenum	ppm	ASTM D5185m		<1	0	
Calcium         ppm         ASTM D5185m         11         15            Phosphorus         ppm         ASTM D5185m         827         279         271            Zinc         ppm         ASTM D5185m         0         345         333            Sulfur         ppm         ASTM D5185m         13         861         764            Acid Number (AN)         mg KOH/g         ASTM D8045         0.06         0.36         0.39	Manganese	ppm					
Phosphorus         ppm         ASTM D5185m         827         279         271            Zinc         ppm         ASTM D5185m         0         345         333            Sulfur         ppm         ASTM D5185m         13         861         764            Acid Number (AN)         mg KOH/g         ASTM D8045         0.06         0.36         0.39	Magnesium	ppm	ASTM D5185m		61		
Zinc         ppm         ASTM D5185m         0         345         333            Sulfur         ppm         ASTM D5185m         13         861         764            Acid Number (AN)         mg KOH/g         ASTM D8045         0.06         0.36         0.39	Calcium	ppm				15	
Sulfur         ppm         ASTM D5185m         13         861         764            Acid Number (AN)         mg KOH/g         ASTM D8045         0.06         0.36         0.39	Phosphorus	ppm	ASTM D5185m	827	279	271	
Acid Number (AN) mg KOH/g ASTM D8045 0.06 0.36 0.39	Zinc						
	Sulfur				861		
Visc @ 40°C cSt ASTM D445 47 45.7 46.5	Acid Number (AN)			0.06			
	Visc @ 40°C	cSt	ASTM D445	47	45.7	46.5	



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 **JRE - ASHLAND** Sample No. : JR0200332 11047 LEADBETTER RD Received : 21 Mar 2024 PT, Lab Number : 06125576 : 26 Mar 2024 ASHLAND, VA Tested : 26 Mar 2024 - Jonathan Hester US 23005 Unique Number : 10939727 Diagnosed Test Package : CONST (Additional Tests: PQ) Contact: DAVID ZIEG Certificate L2367 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 F: (804)798-0292 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)