

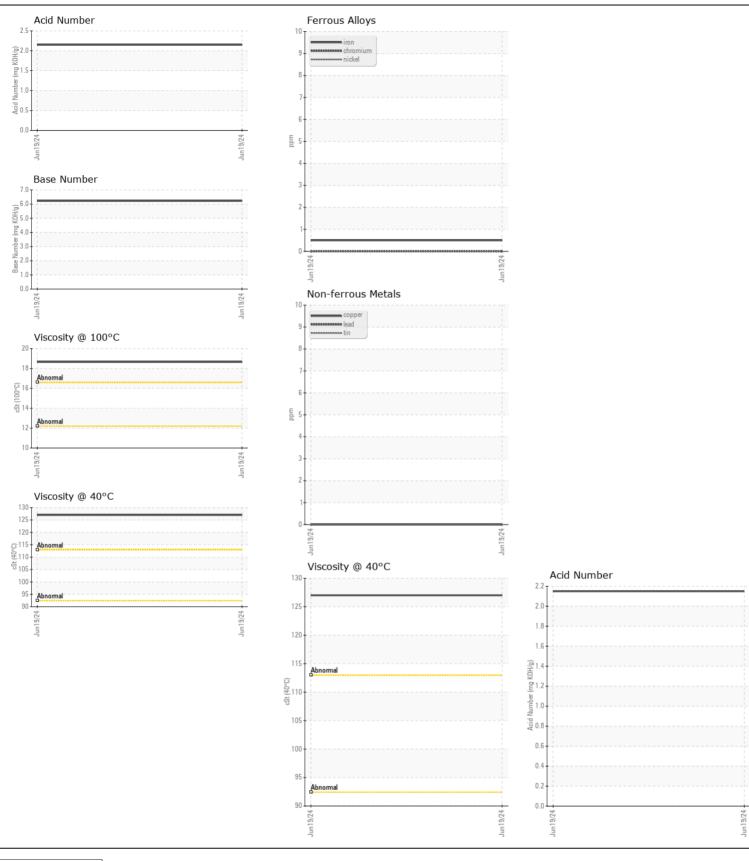
**WEAR** CONTAMINATION **FLUID CONDITION**  **NORMAL NORMAL NORMAL** 

Machine Id

## 24F1901 BL-827

Component New (Unused) Oil

Test	UOM	Method	Limit/Abn	Current	History1	History
Sample Number		Client Info		HPL0005294		
Sample Date		Client Info		19 Jun 2024		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
-	hrs	Client Info		0		
-		Client Info				
		Client Info		N/A		
				NORMAL		
Iron	ppm	ASTM D5185m		<1		
Chromium	ppm	ASTM D5185m		0		
Nickel	ppm	ASTM D5185m		0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m		2		
Lead	ppm	ASTM D5185m		0		
Copper	ppm	ASTM D5185m		0		
Tin	ppm	ASTM D5185m		0		
Vanadium	ppm	ASTM D5185m		<1		
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Silicon	ppm	ASTM D5185m		3		
Potassium	ppm	ASTM D5185m	>20	1		
Water		WC Method		NEG		
Silt	scalar	*Visual	NONE	NONE		
Debris	scalar	*Visual	NONE	NONE		
Sand/Dirt	scalar	*Visual	NONE	NONE		
Appearance	scalar	*Visual	NORML	NORML		
Odor	scalar	*Visual	NORML	NORML		
<b>Emulsified Water</b>	scalar	*Visual		NEG		
		10TH DE (05				
				_		
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	ppm					
Phosphorus	ppm			1009		
Zinc	ppm			1113		
Sulfur	ppm			9109		
		ASTM D8045		2.15		
Base Number (BN)		ASTM D2896		6.22		
Visc @ 40°C	cSt	ASTM D445		127.0		
Visc @ 100°C	cSt	ASTM D445		18.65		
	Sample Number Sample Date Machine Age Oil Age Filter Age Oil Changed Filter Changed Sample Status  Iron Chromium Nickel Titanium Silver Aluminum Lead Copper Tin Vanadium White Metal Yellow Metal  Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water  Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Acid Number (AN) Base Number (BN)	Sample Number Sample Date Machine Age Oil Age Filter Age Oil Changed Filter Changed Sample Status  Iron Chromium ppm Nickel Titanium ppm Silver Aluminum Lead ppm Copper Tin Vanadium White Metal Yellow Metal Silicon Ppm Potassium Debris Sand/Dirt Appearance Sand/Dirt Sand/Dirt Scalar Sodium Ppm Boron Barium Manganese ppm Magnesium Ppm Calcium Ppm Nanyolom Pom Magnesium Ppm Magnesium Ppm Magnesium Ppm Magnesium Ppm Magnesium Ppm Calcium Ppm Phosphorus Ppm Sulfur Acid Number (AN) Base Number (BN) Mrs Mrs  Mrs  Filter Age Nrs Ppm Ppm Ppm Nolybdenum Ppm Phosphorus Ppm Sulfur Acid Number (AN) Mrs Mrs  Filter Ppm Mrs Phosphorus Ppm Mrs Pohyble Ppm Mrs Pohyble Ppm Mrs Pohyble Ppm Mrs Pohyble Ppm Mrs Ppm Mrs Pohyble Ppm Mrs Ppm Mrs Pohyble Ppm Mrs Pohyble Ppm Mrs Ppm Mrs Pohyble Ppm Mrs Pr Mrs	Sample Number Sample Date Machine Age Dilent Info Machine Age Dilent Info Oil Age Filter Age Oil Changed Filter Changed Sample Status  Iron Chromium Dpm ASTM D5185m Nickel Dpm ASTM D5185m Aluminum Dpm ASTM D5185m Copper Dpm ASTM D5185m Vanadium Dpm ASTM D5185m Valual Vellow Metal Scalar Visual Silicon Dpm ASTM D5185m Vater WC Method Silt Scalar Visual Sand/Dirt Scalar Appearance Odor Scalar Avisual Sodium Debris Scalar Appearance Scalar Avisual Sodium Appearance Scalar Avisual Appearance ASTM D5185m AST	Sample Number   Client Info   Sample Date   Client Info   Machine Age   hrs   Client Info   Filter Age   hrs   Client Info   Gil Age   hrs   Client Info   Filter Age   hrs   Client Info   Gil Changed   Client Info   Filter Changed   Client Info   Sample Status    Iron   ppm   ASTM D5185m   Chromium   ppm   ASTM D5185m   Nickel   ppm   ASTM D5185m   Nickel   ppm   ASTM D5185m   Nickel   ppm   ASTM D5185m   Aluminum   ppm   ASTM D5185m   Lead   ppm   ASTM D5185m   Copper   ppm   ASTM D5185m   Vanadium   ppm   ASTM D5185m   Valicon   ppm   ASTM D5185m   Potassium   ppm   ASTM D5185m   Potassium   ppm   ASTM D5185m   NONE  Silicon   ppm   ASTM D5185m   NONE Sand/Dirt   scalar *Visual   NONE Sand/Dirt   scalar *Visual   NONE Appearance   scalar *Visual   NONE Appearance   scalar *Visual   NORML Codor   scalar *Visual   NORML Emulsified Water   scalar *Visual   NORML Emulsified Water   scalar *Visual   Sodium   ppm   ASTM D5185m   Barium   ppm   ASTM D5185m   Barium   ppm   ASTM D5185m   Manganese   ppm   ASTM D5185m   Manganese   ppm   ASTM D5185m   Magnesium   ppm   ASTM D5185m   Acid Number (AN)   mg KOH g   ASTM D8045   Base Number (BN)   mg KOH g   ASTM D8966	Sample Number         Client Info         HPL0005294           Sample Date         Client Info         19 Jun 2024           Machine Age         hrs         Client Info         0           Oil Age         hrs         Client Info         0           Filter Age         hrs         Client Info         Not Changd           Filter Changed         Client Info         Not Changd           Client Info         Not Changd         Not Machang           Filter Changed         Client Info         Not Changd           Client Info         Not Salt         Not Salt           Silver         Pom ASTM D5185m         0           Aluminum         Pom ASTM D5185m         0           Aluminum         Pom ASTM D5185m         0	Sample Number         Client Info         HPL0005294







Certificate L2367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06220237

: HPL0005294

**Tested** Unique Number : 11098434 Diagnosed

Received : 25 Jun 2024 : 28 Jun 2024

: 28 Jun 2024 - Jonathan Hester

HIGH PERFORMANCE LUBRICANTS LLC 500 S SPRUCE ST MANTENO, IL

> US 60950 Contact: DAVID WARD

Test Package : MOB 2 ( Additional Tests: FT-IR, ICP-NewOil, KV100, PrtCount, TBN, VI ) To discuss this sample report, contact Customer Service at 1-800-237-1369.

sampledata@hplubricants.com T: (815)468-3535

\* - 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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