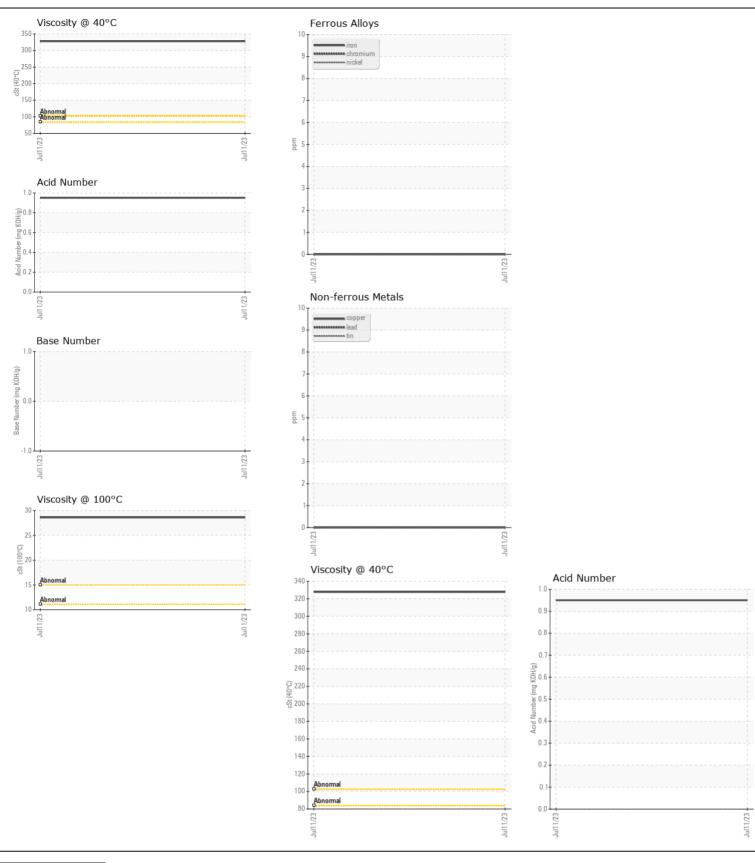


**WEAR** CONTAMINATION **FLUID CONDITION**  NORMAL **NORMAL NORMAL** 

Machine Id **23E2404 GL-125** 

Test Sample Number	UOM	Method	Line It / Alexe	(	Literania	100
Cample Number		Method	Limit/Abn	Current	History1	History2
Sample Mulliber		Client Info		HPL0002963		
Sample Date		Client Info		11 Jul 2023		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Filter Age	hrs	Client Info		0		
Oil Changed		Client Info		Not Changd		
Filter Changed		Client Info		N/A		
Sample Status				NORMAL		
Iron	nnm	ASTM D5185m		0		
Titanium		ASTM D5185m		0		
Silver		ASTM D5185m		0		
Aluminum		ASTM D5185m		2		
Lead	ppm	ASTM D5185m		0		
Copper	ppm	ASTM D5185m		0		
Tin	ppm	ASTM D5185m		0		
Vanadium	ppm	ASTM D5185m		0		
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Silicon	nnm	ASTM D5185m		0		
			>20			
	le le · · ·					
	scalar		NONE			
Debris						
Sand/Dirt	scalar	*Visual	NONE	NONE		
Appearance	scalar		NORML	NORML		
Odor	scalar	*Visual	NORML	NORML		
Emulsified Water	scalar	*Visual		NEG		
Sodium	nnm	ASTM D5185m		0		
-		ASTM D5185m				
		ASTM D5185m				
Calcium		ASTM D5185m		27		
Phosphorus	ppm	ASTM D5185m		191		
Zinc	ppm	ASTM D5185m		9		
Sulfur	ppm	ASTM D5185m		23681		
Acid Number (AN)	mg KOH/g	ASTM D8045		0.95		
Visc @ 40°C	cSt	ASTM D445		327.7		
V13C @ +0 C	COL	AGTIVI D443		UZ1.1		
	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)	Oil Age hrs Filter Age hrs Oil Changed Filter Changed Sample Status  Iron ppm Chromium ppm Nickel ppm Titanium ppm Silver ppm Aluminum ppm Lead ppm Copper ppm Tin ppm Vanadium ppm White Metal scalar Yellow Metal scalar Silicon ppm Potassium ppm Water Silt scalar Debris scalar Sand/Dirt scalar Appearance scalar Codor scalar Emulsified Water scalar Sodium ppm Boron ppm Barium ppm Manganese ppm Magnesium ppm Calcium ppm Phosphorus ppm Zinc ppm Sulfur ppm Acid Number (AN) mg KOH/g	Oil Age hrs Client Info Filter Age hrs Client Info Oil Changed Client Info Filter Changed Client Info Sample Status  Iron ppm ASTM D5185m Chromium ppm ASTM D5185m Nickel ppm ASTM D5185m Titanium ppm ASTM D5185m Aluminum ppm ASTM D5185m Lead ppm ASTM D5185m Copper ppm ASTM D5185m Tin ppm ASTM D5185m Vanadium ppm ASTM D5185m White Metal scalar *Visual Yellow Metal scalar *Visual Silicon ppm ASTM D5185m Water WC Method Silt scalar *Visual Sand/Dirt scalar *Visual Debris scalar *Visual Sand/Dirt scalar *Visual Sand/Dirt scalar *Visual Sand/Dirt scalar *Visual Sand/Dirt scalar *Visual Sodium ppm ASTM D5185m Boron ppm ASTM D5185m Boron ppm ASTM D5185m Molybdenum ppm ASTM D5185m Manganese ppm ASTM D5185m Manganese ppm ASTM D5185m Magnesium ppm ASTM D5185m Calcium ppm ASTM D5185m Calcium ppm ASTM D5185m	Oil Age hrs Client Info Filter Age hrs Client Info Oil Changed Client Info Filter Changed Client Info Sample Status  Iron ppm ASTM D5185m Chromium ppm ASTM D5185m Nickel ppm ASTM D5185m Titanium ppm ASTM D5185m Silver ppm ASTM D5185m Lead ppm ASTM D5185m Lead ppm ASTM D5185m Copper ppm ASTM D5185m Vanadium ppm ASTM D5185m NONE Silicon ppm ASTM D5185m Potassium ppm ASTM D5185m Potassium ppm ASTM D5185m NONE Sand/Dirt scalar *Visual NORML Odor scalar *Visual NORML Odor scalar *Visual NORML Appearance scalar *Visual NORML Sodium ppm ASTM D5185m Boron ppm ASTM D5185m Barium ppm ASTM D5185m ASTM D5185m Molybdenum ppm ASTM D5185m Manganese ppm ASTM D5185m Manganese ppm ASTM D5185m Calcium ppm ASTM D5185m Calcium ppm ASTM D5185m Calcium ppm ASTM D5185m Calcium ppm ASTM D5185m ASTM D5185m Sulfur ppm ASTM D5185m AS	Oil Age         hrs         Client Info         0           Filter Age         hrs         Client Info         0           Oil Changed         Client Info         Not Changd           Filter Changed         Client Info         N/A           Sample Status         NORMAL           Iron         ppm         ASTM D5185m         0           Chromium         ppm         ASTM D5185m         0           Nickel         ppm         ASTM D5185m         0           Nickel         ppm         ASTM D5185m         0           Titanium         ppm         ASTM D5185m         0           Silver         ppm         ASTM D5185m         0           Aluminum         ppm         ASTM D5185m         0           Aluminum         ppm         ASTM D5185m         0           Copper         ppm         ASTM D5185m         0           Copper         ppm         ASTM D5185m         0           Vanadium         ppm         ASTM D5185m         0           Vanadium         ppm         ASTM D5185m         0           Vanadium         ppm         ASTM D5185m         0           Valual         NONE	Oil Age         hrs         Client Info         0







Report Id: HIGMAN [WUSCAR] 05897809 (Generated: 03/05/2024 10:58:25) Rev: 1

Laboratory Sample No.

Lab Number : 05897809 Unique Number : 10559165

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : HPL0002963

Received **Tested** 

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

: 17 Jul 2023 Diagnosed

: 17 Jul 2023 - Jonathan Hester

: 13 Jul 2023

HIGH PERFORMANCE LUBRICANTS LLC 500 S SPRUCE ST MANTENO, IL US 60950 Contact: DAVID WARD

Test Package : MOB 2 ( Additional Tests: FT-IR, KV100, PrtCount, TBN, VI ) To discuss this sample report, contact Customer Service at 1-800-237-1369. \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

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

Submitted By: DAVID WARD

F: x: