

WEAR CONTAMINATION FLUID CONDITION

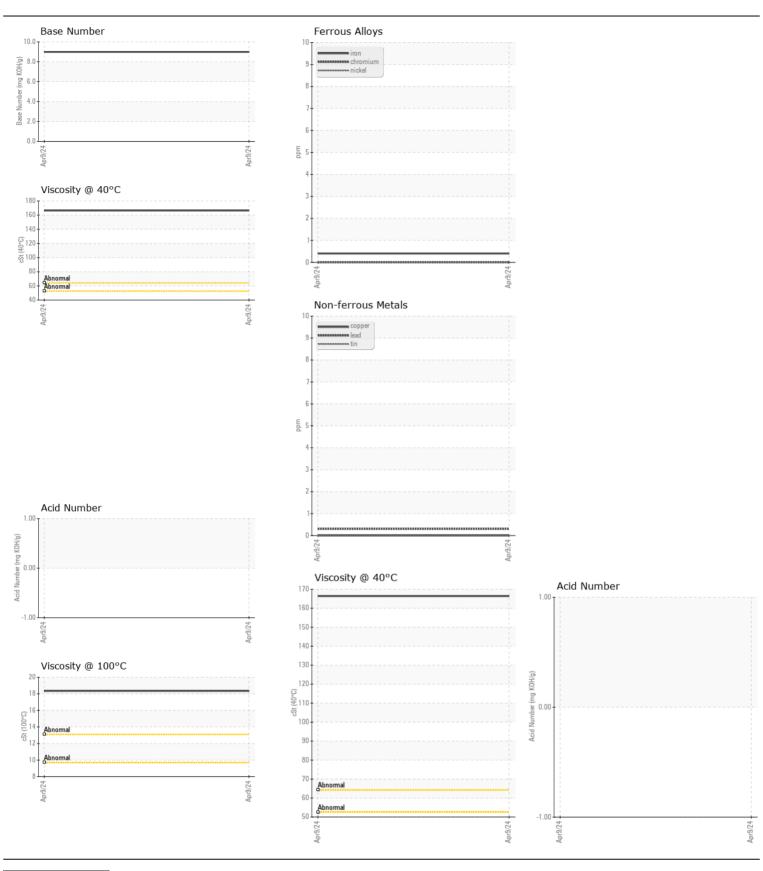
NORMAL NORMAL NORMAL

Machine Id

24D0901 DLM-050

New (Unused) Oil

Machine Age	t History	y1 History
Sample Comment: RUN TBN TEST Sample Date Machine Age hrs Client Info O Oil Age hrs Client Info O Oil Age hrs Client Info O Oil Changed Client Info NA Filter Changed Client Info NA Filter Changed Client Info NA Sample Status NOR No	543	
Machine Age hrs Client Info 0)24	
Filter Age		
Oil Changed Client Info N/A N/A		
Filter Changed Client Info N/A NOR		
Iron		
Iron		
Chromium 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 Aluminum ppm ASTM D5185m 0 Tin ppm ASTM D5185m 0 Tin ppm ASTM D5185m 0 Vanadium ppm ASTM D5185m 0 Vater Wc Method NE Silt scalar *Visual NONE NC Sand/Dirt scalar *Visual NONE NC Appearance scalar *Visual NORML N	AL	
Chromium ppm ASTM D5185m 0 Nickel ppm ASTM D5185m 0 Titanium ppm ASTM D5185m 0 Silver ppm ASTM D5185m 0 Aluminum ppm ASTM D5185m 0 Tin ppm ASTM D5185m 0 Tin ppm ASTM D5185m 0 Vanadium ppm ASTM D5185m 0 Vellow Metal scalar "Visual NONE NOTE Vellow Metal scalar "Visual NONE NOTE Valuer WC Method NE Silt scalar "Visual NONE NOTE Sand/Dirt scalar "Visual NONE NOTE Appearance scalar "Visual NONE NOTE Appearance scalar "Visual NORM NOTE Appearance scalar "Visu		
Nickel ppm ASTM D5185m 0		
Titanium ppm ASTM D5185m 0		
Silver ppm ASTM D5185m 2		
Aluminum		
Lead		
Tin		
Vanadium ppm ASTM D5185m <1		
White Metal Scalar *Visual NONE NO		
Yellow Metal Scalar *Visual NONE NONTAMINATION		
ONTAMINATION Silicon ppm ASTM D5185m 6 Potassium ppm ASTM D5185m >20 3 Water WC Method NE Silt scalar *Visual NONE NC Debris scalar *Visual NONE NC Sand/Dirt scalar *Visual NONE NC Appearance scalar *Visual NORML NC Odor scalar *Visual NORML NC Emulsified Water scalar *Visual NORML NC Emulsified Water scalar *Visual NORML NC Boron ppm ASTM D5185m 1 Boron ppm ASTM D5185m 21 Molybdenum ppm ASTM D5185m 24 Magnesium ppm ASTM D5185m 24 Phosphorus ppm ASTM D5185m 72 Zinc ppm ASTM D5185m 80	E	
Potassium ppm ASTM D5185m >20 3	E	
Potassium ppm ASTM D5185m >20 3		
Water		
Silt scalar *Visual NONE NO		
Debris scalar *Visual NONE NC	E	
Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual NE NE NE NE NE NE NE N		
Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual NEW NE	E	
Emulsified Water scalar *Visual NE	ML	
Sodium ppm ASTM D5185m 1	ML	
Boron ppm ASTM D5185m 9 Barium ppm ASTM D5185m <1		
Boron ppm ASTM D5185m 9 Barium ppm ASTM D5185m <1		
Barium ppm ASTM D5185m <1 Molybdenum ppm ASTM D5185m 26 Manganese ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 28 Calcium ppm ASTM D5185m 24 Phosphorus ppm ASTM D5185m 72 Zinc ppm ASTM D5185m 80		
Molybdenum ppm ASTM D5185m 26 Manganese ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 28 Calcium ppm ASTM D5185m 24 Phosphorus ppm ASTM D5185m 72 Zinc ppm ASTM D5185m 80		
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Magnesium ppm ASTM D5185m 28 Calcium ppm ASTM D5185m 24 Phosphorus ppm ASTM D5185m 72 Zinc ppm ASTM D5185m 80		
Calcium ppm ASTM D5185m 24 Phosphorus ppm ASTM D5185m 72 Zinc ppm ASTM D5185m 80		
Phosphorus ppm ASTM D5185m 72 Zinc ppm ASTM D5185m 80		
Zinc ppm ASTM D5185m 80		
Sulfur ppm ASTM D5185m 18		
	8	
Base Number (BN) mg KOH/g ASTM D2896 8.9		
Visc @ 40°C	1	
Visc @ 100°C cSt ASTM D445 18	1	







Laboratory Sample No. Unique Number: 10980926

: HPL006543 **Lab Number** : 06150848

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 16 Apr 2024 **Tested** : 19 Apr 2024

Diagnosed

: 19 Apr 2024 - Jonathan Hester

HIGH PERFORMANCE LUBRICANTS LLC 500 S SPRUCE ST MANTENO, IL US 60950

Test Package : MOB 2 (Additional Tests: FT-IR, ICP-NewOil, KV100, PrtCount, TBN, VI) Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

Contact: DAVID WARD 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)

F: x: