

WEAR CONTAMINATION **FLUID CONDITION**

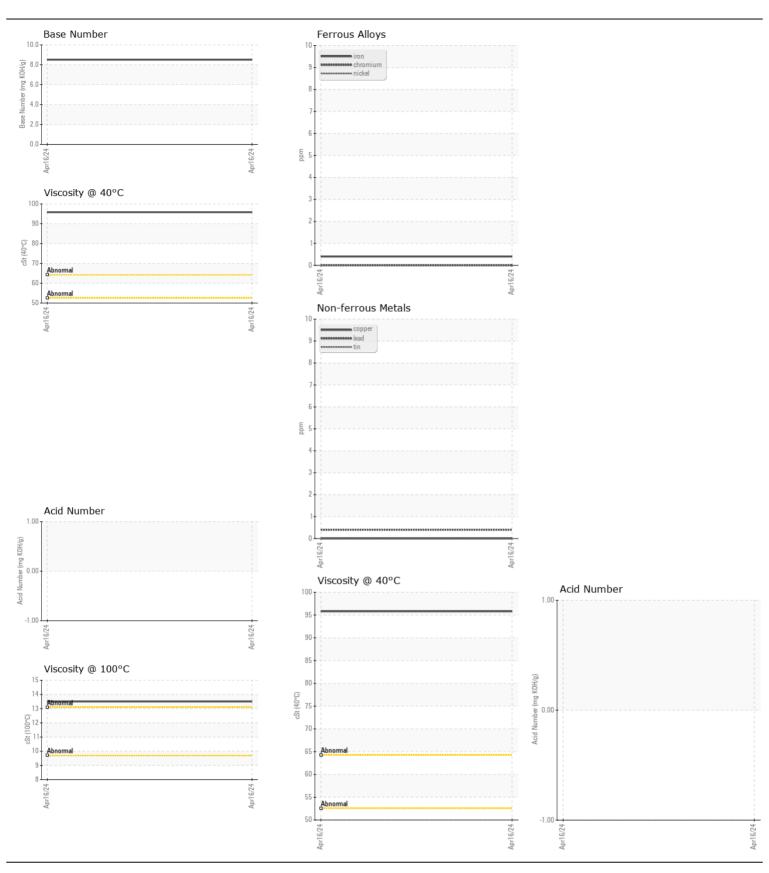
NORMAL NORMAL NORMAL

Machine Id

24D0902 DLM-025

New (Unused) Oil

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
This is a baseline read-out on the submitted sample. (Customer Sample Comment: RUN TBN TEST)	Sample Number		Client Info		HPL006546		
	Sample Date		Client Info		16 Apr 2024		
	Machine Age	hrs	Client Info		0		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		N/A		
	Filter Changed		Client Info		N/A		
	Sample Status				NORMAL		
WEAR	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		- <1		
	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		
CONTAMINATION	Silicon	nnm	ASTM D5185m		E		
	Potassium	ppm	ASTM D5185m	- 20	5 0		
	Water	ppm	WC Method	>20	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		
	Emulsified Water	scalar	*Visual		NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		0		
	Boron	ppm	ASTM D5185m		8		
	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		107		
	Manganese	ppm	ASTM D5185m		0		
	Magnesium	ppm	ASTM D5185m		23		
	Calcium	ppm	ASTM D5185m		2266		
	Phosphorus	ppm	ASTM D5185m		665		
	Zinc	ppm	ASTM D5185m		787 19765		
	Sulfur	ppm	ASTM D3906		18765		
	Base Number (BN) Visc @ 40°C	mg KOH/g cSt	ASTM D2896 ASTM D445		8.51 95.81		
	Visc @ 100°C	cSt	ASTM D445		13.5		
	VIOCIO TOU C	UUL	CPPU IVI I OF		10.0		





Certificate L2367

Laboratory Sample No.

Lab Number : 06150844 Unique Number : 10980922

: HPL006546

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested**

Diagnosed

: 16 Apr 2024 : 19 Apr 2024

: 19 Apr 2024 - Jonathan Hester Test Package : MOB 2 (Additional Tests: FT-IR, ICP-NewOil, KV100, PrtCount, TBN, VI)

HIGH PERFORMANCE LUBRICANTS LLC 500 S SPRUCE ST MANTENO, IL

> US 60950 Contact: DAVID WARD sampledata@hplubricants.com

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

F: x:

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