

Machine Id NOT GIVEN HPL004994

Component New (Unused) Oil

{not provided} (--- QTS)

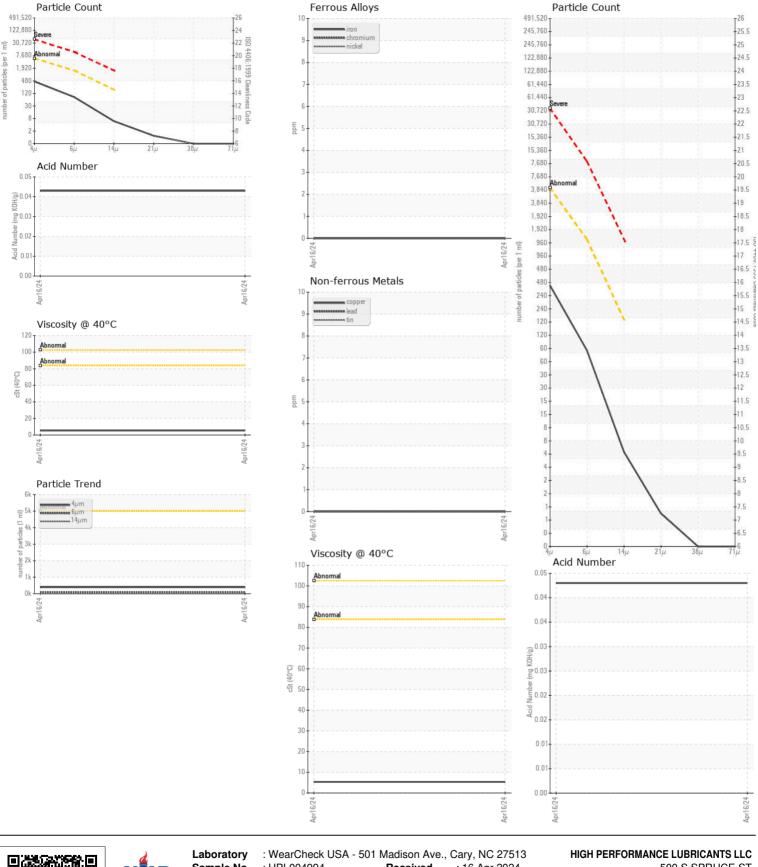
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		HPL004994		
This is a baseline read-out on the submitted sample.	Sample Date		Client Info		16 Apr 2024		
	Machine Age	hrs	Client Info		0		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		N/A		
	Filter Changed		Client Info		N/A		
	Sample Status				NORMAL		
WEAR	Iron		ASTM D5185m		0		
	Chromium	ppm ppm	ASTM D5185m		0		
	Nickel		ASTM D5185m		0		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m		0		
		ppm					
	Aluminum Lead	ppm	ASTM D5185m ASTM D5185m		0		
		ppm			-		
	Copper	ppm	ASTM D5185m		0		
	Tin	ppm	ASTM D5185m		0		
	Vanadium White Metal	ppm	ASTM D5185m	NONE	0 NONE		
		scalar	*Visual	NONE	-		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m		8		
	Potassium	ppm	ASTM D5185m	>20	18		
	Water		WC Method		NEG		
	Particles >4µm		ASTM D7647	>5000	390		
	Particles >6µm		ASTM D7647		71		
	Particles >14µm		ASTM D7647	>160	5		
	Particles >21µm		ASTM D7647		1		
	Particles >38µm		ASTM D7647	>10	0		
	Particles >71µm		ASTM D7647	>3	0		
	Oil Cleanliness		ISO 4406 (c)	>19/17/14	16/13/10		
	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		
	0				•		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		3		
	Boron		ASTM D5185m		0		
	Barium	ppm	ASTM D5185m		<1		
	Molybdenum	ppm	ASTM D5185m		0		
	Manganese	ppm	ASTM D5185m		0		
	Magnesium	ppm	ASTM D5185m		0		
	Calcium	ppm	ASTM D5185m		0		
	Phosphorus	ppm	ASTM D5185m		4		
	Zinc	ppm	ASTM D5185m		0		
	Sulfur	ppm	ASTM D5185m		0		
	Acid Number (AN)		ASTM D8045		0.043		
	Visc @ 40°C	cSt	ASTM D445		5.37		
	Vier @ 10000	- 0+			4 07		

Visc @ 100°C cSt

ASTM D445

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

1.97



Sample No. 500 S SPRUCE ST : HPL004994 Received : 16 Apr 2024 Lab Number : 06150831 Tested : 19 Apr 2024 MANTENO, IL US 60950 Unique Number : 10980909 Diagnosed : 19 Apr 2024 - Jonathan Hester Test Package : MOB 2 (Additional Tests: FT-IR, KV100, PrtCount, VI) Contact: LES RUDNICK Certificate L2367 les@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. T: (814)769-6969 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (815)468-1010

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Contact/Location: LES RUDNICK - HIGMAN Page 2 of 2