

WEAR CONTAMINATION FLUID CONDITION **NORMAL NORMAL NORMAL**

SOUTH HOLLAND

MANITOU MI25D FL9393 (S/N 889393)

Diesel Engine

DIESEL ENGINE OIL 10W40 (--- GAL)

DESEL ENGINE OIL 10W40 (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		HPL0003898		
	Sample Date		Client Info		16 Apr 2024		
	Machine Age	hrs	Client Info		151		
	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	>100	8		
Metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185m	>20	0		
	Nickel	ppm	ASTM D5185m		0		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m	>3	0		
	Aluminum	ppm	ASTM D5185m		3		
	Lead	ppm	ASTM D5185m		0		
	Copper	ppm	ASTM D5185m		11		
	Tin	ppm	ASTM D5185m		<1		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	15		
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	4		
	Fuel		WC Method	>5	<1.0		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.1		
	Nitration	Abs/cm	*ASTM D7624	>20	5.5		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	17.4		
	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	>0.2	NEG		
LUD CONDITION	Sodium		ASTM D5185m		•		
FLUID CONDITION	Boron	ppm		250	3		
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m ASTM D5185m		2		
	Molybdenum	ppm	ASTM D5185m		48		
	Manganese	ppm	ASTM D5185m	100	2		
	_	ppm	ASTM D5185m	450	734		
	Magnesium Calcium	ppm	ASTM D5185m		1359		
		ppm					
	Phosphorus	ppm	ASTM D5185m		1000		
	Zinc	ppm	ASTM D5185m		1140		
	Sulfur	ppm	ASTM D5185m		4276		
	Ovidation	Aba/ 1	* A CTM D 7 4 4 4	. 05			
	Oxidation Base Number (BN)	Abs/.1mm mg KOH/g	*ASTM D7414 ASTM D2896		12.5 9.90		





Certificate L2367

Laboratory Sample No.

: HPL0003898 Lab Number : 06152178 Unique Number: 10982256 Test Package : MOB 2

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 17 Apr 2024 **Tested** : 18 Apr 2024

Diagnosed : 18 Apr 2024 - Wes Davis STEVENSON CRANE 410 STEVENSON DR BOLINGBROOK, IL

US 60440 Contact: DAVE KOEHNE

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* - 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)