WEAR CONTAMINATION FLUID CONDITION **NORMAL NORMAL NORMAL**

Machine Id

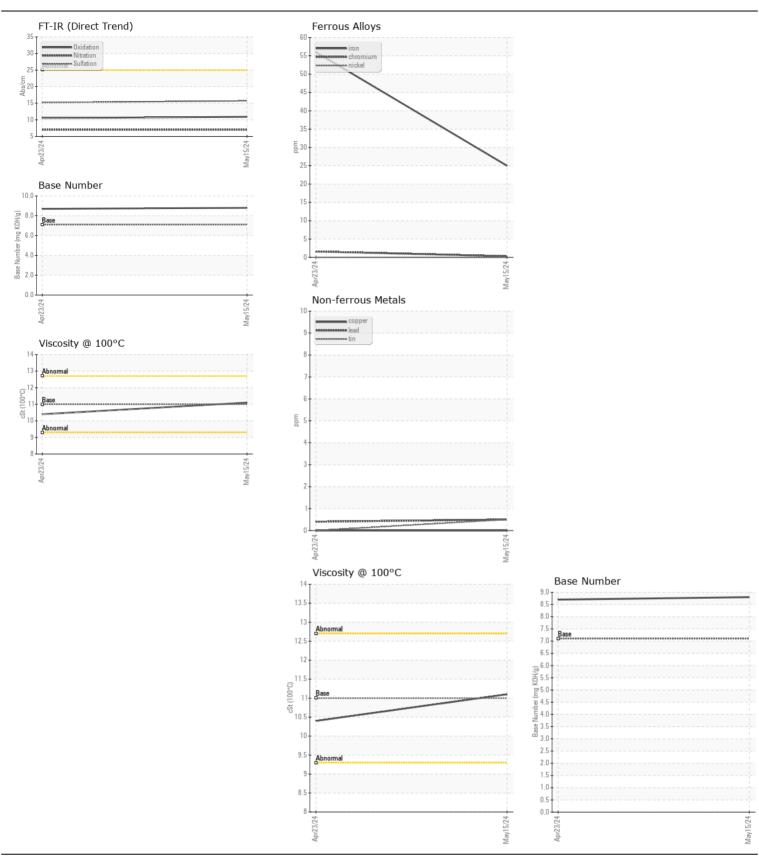
Whiteman WBH-16EF Whiteman Concrete Buggy (S/N 1904106)

Component

1 Gasoline Engine

SCHAEFFER SUPREME 7000 SAE 10W30 (1 QTS)

Sample Number Client Info Sample Oate Client Info Client Info		/						
Resample at the next service interval to monitor. (Customer Sample Comment: Engine oil sample)	RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Date Sample Sampl	Resample at the next service interval to monitor. (Customer Sample	Sample Number		Client Info		WC0868373	WC0904088	
Machine Age miths Client Info 60 1		Sample Date		Client Info		15 May 2024	23 Apr 2024	
Filter Age	Comment. Engine on Sample)	Machine Age	mths	Client Info		61	60	
Colchanged Client Info Changed Client Info Changed Client Info Client Info Changed Client Info		Oil Age	mths	Client Info		60	1	
Filter Changed Samples Status		Filter Age	mths	Client Info		0	0	
NORMAL N		Oil Changed		Client Info		Changed	Changed	
Iron		Filter Changed		Client Info		N/A	N/A	
Chromium ppm ASTM D6185m >20 <1 2 Nickel ppm ASTM D6185m >5 0 0 0 Titanium ppm ASTM D6185m >6 0 0 Titanium ppm ASTM D6185m >6 0 0 Aluminum ppm ASTM D6185m >40 6 9 Aluminum ppm ASTM D6185m >40 6 9 Aluminum ppm ASTM D6185m >6 0 0 Aluminum ppm ASTM D6185m >6 0 0 Aluminum ppm ASTM D6185m >6 0 0 ASTM D6185m 0 0 0 AS		Sample Status				NORMAL	NORMAL	
Chromium ppm ASTM D6185m >20 <1 2 Nickel ppm ASTM D6185m >5 0 0 0 Titanium ppm ASTM D6185m >6 0 0 Titanium ppm ASTM D6185m >6 0 0 Aluminum ppm ASTM D6185m >40 6 9 Aluminum ppm ASTM D6185m >40 6 9 Aluminum ppm ASTM D6185m >6 0 0 Aluminum ppm ASTM D6185m >6 0 0 Aluminum ppm ASTM D6185m >6 0 0 ASTM D6185m 0 0 0 AS	WFAR	Iron	mag	ASTM D5185m	>150	25	56	
Nickel ppm ASTM D5166m 55 0 0		Chromium		ASTM D5185m	>20			
Titanium ppm ASTM 0586m 0	All component wear rates are normal.							
Silver								
Aluminum ppm ASTM D5185m 3-40 6 9					>2			
Lead								
Copper						-		
Tin								
Vanadium ppm ASTM D5185m NONE NONE		• • • • • • • • • • • • • • • • • • • •						
White Metal Yellow Metal Scalar *Visual NONE NON								
Yellow Metal Scalar Visual NONE NO					NONE	-		
Silicon ppm ASTM D5185m >30 12 16								
Potassium ppm ASTM D5185m 2-0 1 2				v 150aa1				
Potassium ppm ASTM D5185m 2-0 1 2	CONTAMINATION	Silicon	ppm	ASTM D5185m	>30	12	16	
Fuel WC Method Sol. State Sol. WC Method Sol. NEG NEG Sol. NEG NEG Sol. NEG NE		Potassium		ASTM D5185m	>20	1	2	
Glycol Scot % % %	There is no indication of any contamination in the oil.	Fuel		WC Method	>4.0	<1.0	<1.0	
Glycol Scot % % %		Water		WC Method	>0.2	NEG	NEG	
Soot %		Glycol						
Nitration Abs/cm *ASTM D7624 >20 7.0 7.0		-	%	*ASTM D7844		0.1	0.1	
Sulfation Abs/.lmm *ASTM D7415 >30 15.7 15.2		Nitration		*ASTM D7624	>20			
Debris Scalar *Visual NONE NONE NONE NONE Sand/Dirt Scalar *Visual NONE NORE NONE NONE			Abs/.1mm	*ASTM D7415	>30	15.7	15.2	
Sand/Dirt Scalar *Visual NONE NONE NONE Appearance Scalar *Visual NORML		Silt	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt Scalar *Visual NONE NONE NONE Appearance Scalar *Visual NORML		Debris	scalar	*Visual	NONE	NONE	NONE	
Codor Scalar *Visual NORML N		Sand/Dirt	scalar		NONE	NONE	NONE	
Emulsified Water scalar *Visual >0.2 NEG NEG		Appearance	scalar	*Visual	NORML	NORML	NORML	
Sodium ppm ASTM D5185m >400 3 2		Odor	scalar	*Visual	NORML	NORML	NORML	
Boron ppm ASTM D5185m 0 53 37		Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
Boron ppm ASTM D5185m 0 53 37		Sodium	nnm	ASTM D5185m	\400	3	2	
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 300 205 232	TEOID CONDITION							
Molybdenum ppm ASTM D5185m 300 205 232 Manganese ppm ASTM D5185m 0 546 636 Calcium ppm ASTM D5185m 2025 1637 1735 Phosphorus ppm ASTM D5185m 900 895 917 Zinc ppm ASTM D5185m 1000 1138 1287 Sulfur ppm ASTM D5185m 2800 4066 4345 Oxidation Abs/.1mm *ASTM D7414 >25 10.9 10.5 Base Number (BN) mg KOH/g ASTM D2896 7.1 8.8 8.7	The BN result indicates that there is suitable alkalinity remaining in the							
Manganese ppm ASTM D5185m <1	oil. The condition of the oil is suitable for further service.				300			
Magnesium ppm ASTM D5185m 0 546 636 Calcium ppm ASTM D5185m 2025 1637 1735 Phosphorus ppm ASTM D5185m 900 895 917 Zinc ppm ASTM D5185m 1000 1138 1287 Sulfur ppm ASTM D5185m 2800 4066 4345 Oxidation Abs/.1mm *ASTM D7414 >25 10.9 10.5 Base Number (BN) mg KOH/g ASTM D2896 7.1 8.8 8.7		•						
Calcium ppm ASTM D5185m 2025 1637 1735 Phosphorus ppm ASTM D5185m 900 895 917 Zinc ppm ASTM D5185m 1000 1138 1287 Sulfur ppm ASTM D5185m 2800 4066 4345 Oxidation Abs/.1mm *ASTM D7414 >25 10.9 10.5 Base Number (BN) mg KOH/g ASTM D2896 7.1 8.8 8.7		_			0			
Phosphorus ppm ASTM D5185m 900 895 917 Zinc ppm ASTM D5185m 1000 1138 1287 Sulfur ppm ASTM D5185m 2800 4066 4345 Oxidation Abs/.1mm *ASTM D7414 >25 10.9 10.5 Base Number (BN) mg KOH/g ASTM D2896 7.1 8.8 8.7		-						
Zinc ppm ASTM D5185m 1 000 1138 1287 Sulfur ppm ASTM D5185m 2800 4066 4345 Oxidation Abs/.1mm *ASTM D7414 >25 10.9 10.5 Base Number (BN) mg KOH/g ASTM D2896 7.1 8.8 8.7								
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NOO W TOO O OUT NOTIFIED TO TO TO.T			0					
		1.00 @ 100 0	301	. 10 1111 0 1110			10.7	







Laboratory Sample No.

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

: WC0868373 Lab Number : 06187039 Unique Number : 11043791

Received **Tested** Test Package : CONST (Additional Tests: TBN)

Diagnosed

: 23 May 2024

: 21 May 2024

: 23 May 2024 - Sean Felton

Contact: DANIEL LISELLA daniel.lisella@shimmick.com T:

SHIMMICK CONSTRUCTION

5535 TRAILHEAD DRIVE

CHATTANOOGA, TN

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)

US 37415

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