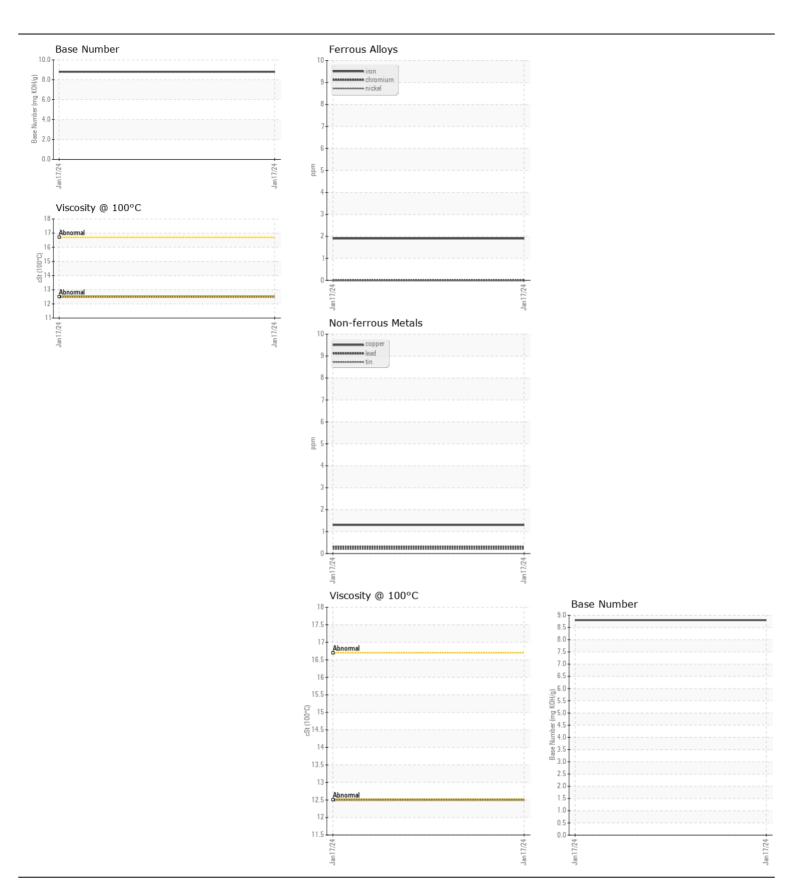


WEAR CONTAMINATION **FLUID CONDITION** **NORMAL NORMAL NORMAL**

Machine Id **639**

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0813345		
Sample Date		Client Info		17 Jan 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		
Iron	ppm	ASTM D5185m	>100	2		
Chromium	ppm	ASTM D5185m	>20	0		
Nickel	ppm	ASTM D5185m	>4	0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>20	1		
Lead	ppm	ASTM D5185m	>40	<1		
Copper	ppm	ASTM D5185m	>330	1		
Tin	ppm	ASTM D5185m	>15	<1		
Vanadium	ppm	ASTM D5185m		0		
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Silicon	ppm	ASTM D5185m	>25	3		
Potassium	ppm	ASTM D5185m	>20	1		
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	7.0		
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.7		
Silt	scalar	*Visual	NONE	NONE		
Debris	scalar	*Visual	NONE	NONE		
Sand/Dirt	scalar	*Visual	NONE	NONE		
Appearance	scalar	*Visual		NORML		
Odor	scalar	*Visual	NORML			
Emulsified Water	scalar	*Visual	>0.2	NEG		
Sodium	ppm	ASTM D5185m		2		
Boron	ppm	ASTM D5185m		38		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		44		
Manganese	ppm	ASTM D5185m		0		
Magnesium	ppm	ASTM D5185m		533		
Calcium	ppm	ASTM D5185m		1441		
Phosphorus	ppm	ASTM D5185m		750		
Zinc	ppm			890		
Sulfur	ppm	ASTM D5185m		2246		
On the last term	Abs/.1mm	*ASTM D7414	>25	15.5		
Oxidation			7 = 0			
		ASTM D2896 ASTM D445	- =0	8.8		
	Sample Number Sample Date Machine Age Oil Age Filter Age Oil Changed Filter Changed Sample Status Iron Chromium Nickel Titanium Silver Aluminum Lead Copper Tin Vanadium White Metal Yellow Metal Yellow Metal Silicon Potassium Fuel Water Glycol Soot % Nitration Sulfation Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	Sample Number Sample Date Machine Age hrs Oil Age hrs Filter Age hrs Oil Changed Filter Changed Sample Status Iron ppm Chromium ppm Nickel ppm Titanium ppm Silver ppm Aluminum ppm Lead ppm Copper ppm Tin ppm Vanadium ppm White Metal scalar Yellow Metal scalar Yellow Metal scalar Silicon ppm Potassium ppm Fuel Water Glycol Soot % % Nitration Abs/.1mm Silt scalar Sulfation Abs/.1mm Silt scalar Sand/Dirt scalar Sand/Dirt scalar Appearance scalar Codor scalar Emulsified Water scalar Sodium ppm Boron ppm Boron ppm Manganese ppm Magnesium ppm Calcium ppm Calcium ppm Sulfur ppm Sulfur ppm Sulfur ppm Sulfur ppm Sulfur ppm	Sample Number Sample Date Machine Age Machine Age Mrs Client Info	Sample Number Sample Date Machine Age Mrs Client Info Client Info Oil Age Mrs Client Info	Sample Number Client Info WC0813345 Sample Date Client Info 17 Jan 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 Iron ppm ASTM D5185m NORMAL Iron ppm ASTM D5185m >20 0 Nickel ppm ASTM D5185m >20 0 Nickel ppm ASTM D5185m >20 0 Titanium ppm ASTM D5185m >3 0 Aluminum ppm ASTM D5185m >3 0 Aluminum ppm ASTM D5185m >20 1 Lead ppm ASTM D5185m >30 1 Tin ppm ASTM D5185m >30 1 Tin	Sample Number Sample Date Client Info Sample Date Client Info 17 Jan 2024 Machine Age hrs Client Info 0 Filter Age hrs Client Info 0 Filter Age hrs Client Info 0 Client Info N/A Filter Changed Client Info N/A Filter Changed Client Info N/A Filter Changed Client Info N/A Sample Status NORMAL Iron ppm ASTM D5185m >20 0 Nickel ppm ASTM D5185m >4 0 Titanium ppm ASTM D5185m >4 0 Titanium ppm ASTM D5185m >3 0 Aluminum ppm ASTM D5185m >3 0 Lead ppm ASTM D5185m >30 1 Copper ppm ASTM D5185m >30 1 Tin ppm ASTM D5185m >15 <1 Vanadium ppm ASTM D5185m >15 <1 Vanadium ppm ASTM D5185m >15 <1 Vallow Metal scalar "Visual NONE NONE Vellow Metal scalar "Visual NONE NONE Water WC Method >0 2 NEG Glycol WC Method >0 2 NEG Water WC Method >0 0 NEG Sulfation Abs/tm "ASTM D7844 >3 0.1 Nitration Abs/tm "ASTM D7845 >30 18.7 Sulfation Appearance scalar "Visual NONE NONE Appearance scalar "Visual NONE NONE Sodium ppm ASTM D5185m 0 Appearance scalar "Visual NONE NONE Sodium ppm ASTM D5185m 0 Manganese ppm ASTM D5185m 0 Manganese ppm ASTM D5185m 0 ASTM D5185m D444 NORML Manganese ppm ASTM D5185m 0 Manganese ppm ASTM D5185m 0







Laboratory Sample No. Lab Number

: WC0813345 : 06064702 Unique Number : 10836084 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 18 Jan 2024 : 19 Jan 2024 Diagnosed Diagnostician : Wes Davis

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) **CITY OF BERKELEY**

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