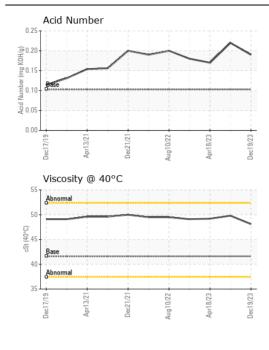


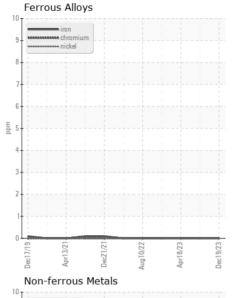
**WEAR** CONTAMINATION **FLUID CONDITION** 

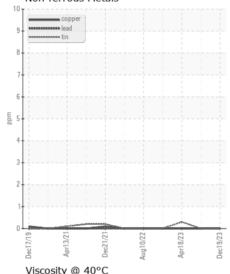
**NORMAL NORMAL NORMAL** 

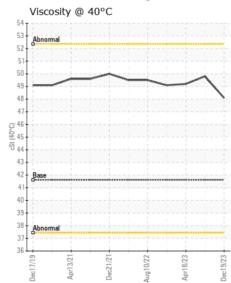
## Area 46S Machine Id 030210 - MINSTER (S/N 14052805529902901)

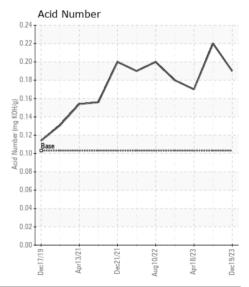
Test	UOM	Method	Limit/Abn	Current	History1	11:-4
				Current	THStory	History2
Sample Number		Client Info		UCS06123863	UCS05952861	UCS05849833
Sample Date		Client Info		19 Dec 2023	10 Aug 2023	18 Apr 2023
Machine Age	hrs	Client Info		46500	45700	45200
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		2400	1500	1200
Oil Changed		Client Info		Changed	N/A	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>50	0	0	0
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m		0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	0	<1	0
Lead	ppm	ASTM D5185m	>25	0	0	0
Copper	ppm	ASTM D5185m	>50	0	0	0
Tin	ppm	ASTM D5185m	>15	0	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	1	<1	0
Potassium	ppm	ASTM D5185m	>20	0	1	<1
Water		WC Method	>0.1	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m		0	0	0
Boron	ppm	ASTM D5185m	0.9	0	0	0
Barium	ppm	ASTM D5185m	0.1	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m	0.2	0	0	<1
Magnesium	ppm	ASTM D5185m	0.9	0	0	2
Calcium	ppm	ASTM D5185m	0	0	0	0
Phosphorus	ppm	ASTM D5185m	224	193	180	181
Zinc	ppm	ASTM D5185m	0	2	0	0
Sulfur	ppm	ASTM D5185m	273	265	297	319
		A CTM DOOM	0.400	0.19	0.22	0.17
Acid Number (AN)	mg KOH/g	ASTM D8045	0.103	0.19	0.22	49.2
	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 Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water  Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	Machine Age Oil Age hrs Filter Age Oil Changed Filter Changed Sample Status  Iron Chromium ppm Nickel Titanium ppm Silver Aluminum Lead ppm Copper Tin ppm Vanadium White Metal Yellow Metal Scalar Silicon Potassium Potassium Potassium Water Silt Scalar Sand/Dirt Appearance Scalar Sand/Dirt Scalar Sodium ppm Boron Barium Manganese Magnesium ppm Calcium ppm Phosphorus Poils Filter Age Porm Potassium ppm Manganese Ppm Manganese ppm Manganese ppm Phosphorus Zinc Ppm Poils Poils Pom	Machine Age hrs Client Info Oil Age hrs Client Info Filter Age hrs Client Info Oil Changed Client Info Oil Changed Client Info Sample Status  Iron ppm ASTM D5185m Chromium ppm ASTM D5185m Nickel ppm ASTM D5185m Silver ppm ASTM D5185m Aluminum ppm ASTM D5185m Lead ppm ASTM D5185m Copper ppm ASTM D5185m Tin ppm ASTM D5185m Vanadium ppm ASTM D5185m Vanadium ppm ASTM D5185m White Metal scalar *Visual Yellow Metal scalar *Visual Silicon ppm ASTM D5185m Water WC Method Silt scalar *Visual Debris scalar *Visual Sand/Dirt scalar *Visual Sand/Dirt scalar *Visual Sand/Dirt scalar *Visual Sodium ppm ASTM D5185m Boron ppm ASTM D5185m Boron ppm ASTM D5185m Manganese ppm ASTM D5185m Calcium ppm ASTM D5185m Phosphorus ppm ASTM D5185m	Machine Age Oil Age Nrs Client Info Filter Age Nrs Client Info Filter Age Nrs Client Info Client Info Filter Age Oil Changed Filter Changed Sample Status  Iron Ppm ASTM D5185m Silver Ppm ASTM D5185m Silver Aluminum Ppm ASTM D5185m Silver Aluminum Ppm ASTM D5185m Silver Aluminum Ppm ASTM D5185m ASTM D5185m Silver Aluminum Ppm ASTM D5185m Silver ASTM D5185m Silver ASTM D5185m Silver Ppm ASTM D5185m Silver ASTM D5185m None ASTM D5185m Silver ASTM D5185m Silver ASTM D5185m None ASTM D5185m Silver ASTM D5185m None White Metal Scalar Visual None Silicon Ppm ASTM D5185m Solon Water Wc Method Solon Silt Scalar Visual None Sand/Dirt Scalar Visual None Sand/Dirt Appearance Scalar Avisual None Sand/Di	Machine Age         hrs         Client Info         46500           Oil Age         hrs         Client Info         0           Filter Age         hrs         Client Info         Changed           Oil Changed         Client Info         Changed           Filter Changed         Client Info         Changed           Sample Status         NORMAL           Iron         ppm         ASTM D5185m         >50           Chromium         ppm         ASTM D5185m         >10           Nickel         ppm         ASTM D5185m         >10           Nickel         ppm         ASTM D5185m         >10           Aluminum         ppm         ASTM D5185m         >25         0           Aluminum         ppm         ASTM D5185m         >25         0           Lead         ppm         ASTM D5185m         >25         0           Copper         ppm         ASTM D5185m         >50         0           Tin         ppm         ASTM D5185m         >50         0           White Metal         scalar         *Visual         NONE         NONE           Yellow Metal         scalar         *Visual         NONE         NONE	Machine Age         hrs         Client Info         46500         45700           Oil Age         hrs         Client Info         0         0           Filter Age         hrs         Client Info         2400         1500           Oil Changed         Client Info         Changed         N/A           Filter Changed         Client Info         Changed         NORMAL           Iron         ppm         ASTM D5185m         >50         0           Chromium         ppm         ASTM D5185m         >10         0           Nickel         ppm         ASTM D5185m         0         0           Nickel         ppm         ASTM D5185m         0         0           Silver         ppm         ASTM D5185m         0         0           Aluminum         ppm         ASTM D5185m         >25         0         <1           Lead         ppm         ASTM D5185m         >25         0         <0            Copper         ppm         ASTM D5185m         >25         0         <0            Vanadium         ppm         ASTM D5185m         >50         0         <0         <0           Vanadium <td< th=""></td<>













Certificate L2367

Laboratory Sample No.

: UCS06123863 Lab Number : 06123863 Unique Number : 10938014 Test Package : IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 20 Mar 2024 : 21 Mar 2024 **Tested** 

: 22 Mar 2024 - Don Baldridge Diagnosed

**CROWN BATTERY MFG** 1445 MAJESTIC DR FREMONT, OH

US 43420 Contact: DOUG CRABILL

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

DCRABILL@CROWNBATTER.COM T:

\* - 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)

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