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

**NORMAL ABNORMAL** NORMAL

## WQ Machine Id NORDBERG (SYMONS) 00077

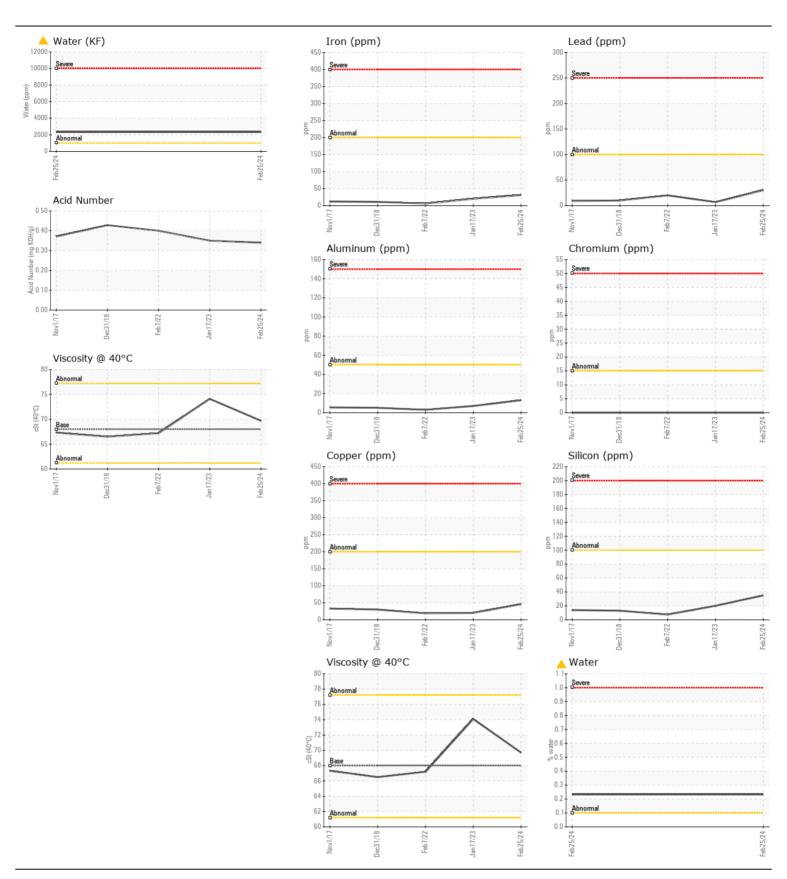
Component Crusher

Fluid

No corrective action is recommended at this time. Resample at the ext service interval to monitor.   Sample Date   Client Info   25 Feb 2024   17 Jan 2023   07 Feb 201   17 Jan 2023   07 Feb 201   18 Jan 2023	ISO 68 (220 GAL)							
Sample Date   Client Info	RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Machine Age   hrs   Cilent Info   25 Feb 2024   17,3 m203   07 Feb 202   17,3 m203   17,3 m203   07 Feb 202   07	No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number		Client Info		LP0001373	WC0570625	WC0524407
Oil Age   hrs   Client Info   0   0   0   0   0   0   0   0   0		Sample Date		Client Info		25 Feb 2024	17 Jan 2023	07 Feb 2022
Filter Age		Machine Age	hrs	Client Info		0	0	0
Pilter Changed   Client Info   NA N/A N/A N/A N/A N/A N/A N/A N/A N/A		Oil Age	hrs	Client Info		0	0	0
Filter Changed Sample Status		Filter Age	hrs	Client Info		0	0	0
Iron		Oil Changed		Client Info		N/A	N/A	N/A
Iron		Filter Changed		Client Info		N/A	N/A	N/A
Chromium   ppm   ASTM D5185m   515   0   0   0   0   1		Sample Status				ABNORMAL	NORMAL	NORMAL
Chromium   ppm   ASTM D5185m   515   0   0   0   0   1	WEAR	Iron	mag	ASTM D5185m	>200	31	20	6
Nickel   ppm   ASTM DS185m   >15   <1   0   <1								
Titanium   ppm   ASTM DSI 85m   < 1	All component wear rates are normal.							
Silver   ppm   ASTM D5185m   >50   0   0   <1								
Aluminum   ppm   ASTM D5185m   >50   13   7   3								
Lead   ppm   ASTM D5185m   >100   30   7   20					>50			
Copper		Lead						
Tin								
Vanadium   ppm   ASTM D5185m   NONE   NON								
White Metal Yellow Metal   Scalar   Visual   NONE   NONE								
Yellow Metal   scalar   *Visual   NONE					NONE			LIGHT
Silicon   ppm   ASTM D5185m   >100   35   20   7								NONE
Potassium   ppm   ASTM D5185m   >20   7   2   2   2   2   2   2   2   2   2								
Water   % ASTM D6304   > 0.1	CONTAMINATION	Silicon	ppm	ASTM D5185m	>100	35	20	7
Water   % ASTM D6304   >0.1	There is a light concentration of water present in the oil.	Potassium	ppm	ASTM D5185m	>20	7	2	2
Silt   scalar *Visual   NONE   NONE   NONE   Debris   scalar *Visual   NONE   NONE   NONE   LIGHT   LIGHT   LIGHT		Water	%	ASTM D6304	>0.1	<b>△</b> 0.233		
Debris   Scalar   *Visual   NONE   NORML		ppm Water	ppm	ASTM D6304	>1000	<b>2330</b>		
Sand/Dirt   scalar *Visual   NONE   NONE   NONE   NONE   Appearance   scalar *Visual   NORML   NORML		Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance   Scalar   *Visual   NORML   NORM		Debris	scalar	*Visual	NONE	NONE	LIGHT	LIGHT
Odor   scalar *Visual   NORML   NORML   NORML   Emulsified Water   scalar *Visual   >0.1   0.2%   NEG   NEG		Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Emulsified Water   scalar   *Visual   >0.1   0.2%   NEG   NEG		Appearance	scalar	*Visual	NORML	NORML	NORML	NORM
Sodium   ppm   ASTM D5185m   4   3   <1		Odor	scalar	*Visual	NORML	NORML	NORML	NORMI
Boron   ppm   ASTM D5185m   c1   2		Emulsified Water	scalar	*Visual	>0.1	0.2%	NEG	NEG
Boron   ppm   ASTM D5185m   c1   2	FLUID CONDITION	Sodium	ppm	ASTM D5185m		4	3	<1
Barium   ppm   ASTM D5185m   0   0   0   0						<1	<1	2
Molybdenum         ppm         ASTM D5185m         0         <1         4           Manganese         ppm         ASTM D5185m         <1         <1         0           Magnesium         ppm         ASTM D5185m         5         4         50           Calcium         ppm         ASTM D5185m         15         11         107           Phosphorus         ppm         ASTM D5185m         162         140         299           Zinc         ppm         ASTM D5185m         8         3         85           Sulfur         ppm         ASTM D5185m         6357         8953         6172           Acid Number (AN)         mg KOH/g         ASTM D8045         0.34         0.35         0.40	The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Barium						
Manganese         ppm         ASTM D5185m         <1         <1         0           Magnesium         ppm         ASTM D5185m         5         4         50           Calcium         ppm         ASTM D5185m         15         11         107           Phosphorus         ppm         ASTM D5185m         162         140         299           Zinc         ppm         ASTM D5185m         8         3         85           Sulfur         ppm         ASTM D5185m         6357         8953         6172           Acid Number (AN)         mg KOH/g         ASTM D8045         0.34         0.35         0.40		Molybdenum				0	<1	4
Magnesium         ppm         ASTM D5185m         5         4         50           Calcium         ppm         ASTM D5185m         15         11         107           Phosphorus         ppm         ASTM D5185m         162         140         299           Zinc         ppm         ASTM D5185m         8         3         85           Sulfur         ppm         ASTM D5185m         6357         8953         6172           Acid Number (AN)         mg KOH/g         ASTM D8045         0.34         0.35         0.40		-						
Calcium         ppm         ASTM D5185m         15         11         107           Phosphorus         ppm         ASTM D5185m         162         140         299           Zinc         ppm         ASTM D5185m         8         3         85           Sulfur         ppm         ASTM D5185m         6357         8953         6172           Acid Number (AN)         mg KOH/g         ASTM D8045         0.34         0.35         0.40		-						
Phosphorus         ppm         ASTM D5185m         162         140         299           Zinc         ppm         ASTM D5185m         8         3         85           Sulfur         ppm         ASTM D5185m         6357         8953         6172           Acid Number (AN)         mg KOH/g         ASTM D8045         0.34         0.35         0.40		-					1	
Zinc         ppm         ASTM D5185m         8         3         85           Sulfur         ppm         ASTM D5185m         6357         8953         6172           Acid Number (AN)         mg KOH/g         ASTM D8045         0.34         0.35         0.40								
Sulfur         ppm         ASTM D5185m         6357         8953         6172           Acid Number (AN)         mg KOH/g         ASTM D8045         0.34         0.35         0.40		•					1	
Acid Number (AN)         mg KOH/g         ASTM D8045         0.34         0.35         0.40								
							1	
					68.0			

Report Id: SMLWALNC [WUSCAR] 06100266 (Generated: 02/28/2024 20:15:24) Rev: 1

Contact/Location: PAUL BECKMAN - SMLWALNC







Laboratory Sample No.

Lab Number : 06100266 Unique Number : 10898496

: LP0001373

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

**Tested** Diagnosed Test Package : MOB 2 ( Additional Tests: KF )

: 28 Feb 2024 - Jonathan Hester

: 26 Feb 2024

: 27 Feb 2024

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)

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