WEAR CONTAMINATION FLUID CONDITION

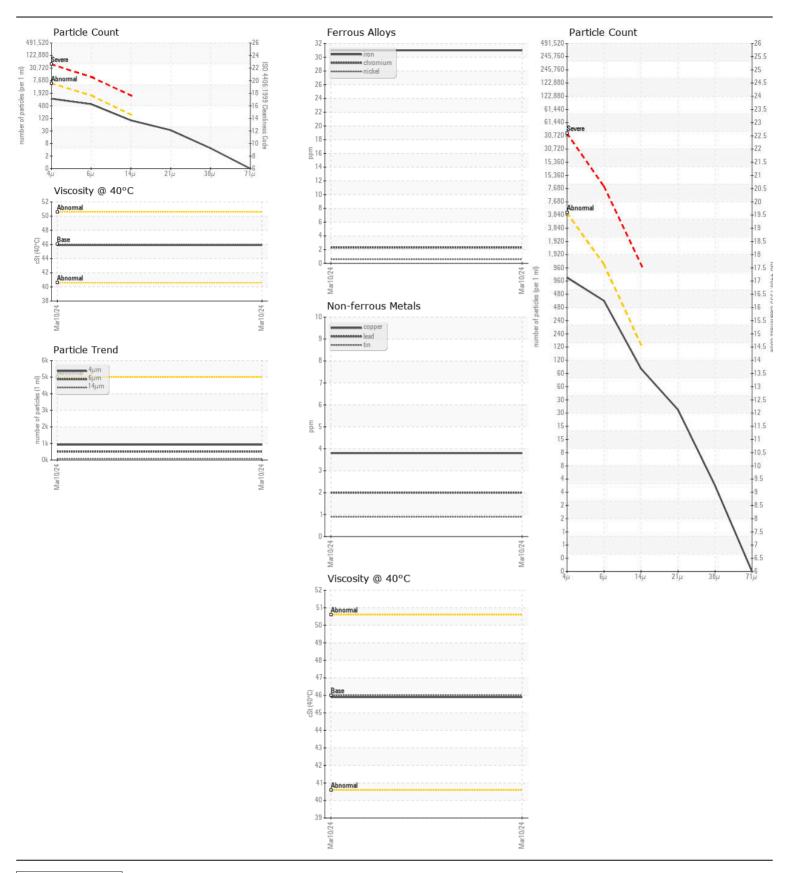
NORMAL NORMAL NORMAL

[Z20115]

COMBIE CRANE 8949 - SAMPLE 2

Hydraulic System

Teal UCM Method Uml/kor Current Woots93555 Woots935555 Woots9355555 Woots935555 Woots935555 Woots9355555 Woots93555555 Woots9355555 Woots9355555 Woots9355555 Woots9355555555 Woots93555555 Woots93555555 Woots93555555 Woots9355555555 Woots93555555555555555555555555555555555555	AW HYDRAULIC OIL ISO 46 (120 LTR)							
Resample at the next service interval to monitor.	RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	Historv2
Resample at the next service interval to monitor. Sample Date Machine Age hrs Client Info 0 0		Sample Number		Client Info				,
Col Age hrs Client Info 0	Resample at the next service interval to monitor.					10 Mar 2024		
Filter Age hrs Client Info N/A		Machine Age	hrs	Client Info		6950		
Oil Changed Cilent Info NA NA NA NA NA NA NA N		Oil Age	hrs	Client Info		0		
Filter Changed Cilent Info NAME NORMAL		Filter Age	hrs	Client Info		0		
NORMAL N		Oil Changed		Client Info		N/A		
Iron		Filter Changed		Client Info		N/A		
All component wear rates are normal.		Sample Status				NORMAL		
All component wear rates are normal.	WEAD							
Nickel ppm ASTM D588m 10 <1	WEAR							
Name	All component wear rates are normal							
Silver ppm ASTM D5185n 0 2					>10			
Aluminum ppm ASTM 05/85m >10 2								
Lead					10			
Copper ppm ASTM D5185m >75 4								
Tin								
Vanadium ppm ASTM D5185m <1								
White Metal Scalar Visual NONE NON					>10			
Yellow Metal Scalar Visual NONE NONE The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. Silicon ppm ASTM 05185m >20 8 Water WC Method >0.1 NEG Particles >4µm ASTM 07647 >5000 922 Particles >6µm ASTM 07647 >100 502 Particles >21µm ASTM 07647 >160 85 Particles >21µm ASTM 07647 >160 85 Particles >38µm ASTM 07647 >10 4 Particles >38µm ASTM 07647 >10 4 Particles >71µm ASTM 07647 >10 4 Particles >38µm ASTM 07647 >10 4 Particles >38µm ASTM 07647 >10 NONE NONE Particles >40 NONE NONE NONE NONE NONE Particles >40 NONE					NONE			
CONTAMINATION Potassium ppm ASTM D5185m >20 8 Potassium ppm ASTM D5185m >20 1								
Potassium			Scalai	Visuai	INOINL	NONE		
Potassium	CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	8		
Cleanliness code. The system and fluid cleanliness is acceptable. Particles >4µm ASTM D7647 5000 922 Particles >6µm ASTM D7647 5000 922 Particles >6µm ASTM D7647 5000 922 Particles >14µm ASTM D7647 5000 85 Particles >21µm ASTM D7647 5000 85 Particles >21µm ASTM D7647 500 85 Particles >38µm ASTM D7647 500 85 Particles >38µm ASTM D7647 500 4 Particles >38µm ASTM D7647 500 4 Particles >71µm ASTM D7647 50 0 Oil Cleanliness ISO 4406 (c) 1917/14 17/16/14 Debris Scalar *Visual NONE NONE NONE NONE Particles >21µm ASTM D7647 50 0 Particles >21µm ASTM D7647 5000 500 Oil Cleanliness ISO 4406 (c) 1917/14 17/16/14 Oil Clean	The sustain placelliness is accordable for your toward ICO 1100		ppm	ASTM D5185m	>20	1		
Particles >4µm				WC Method	>0.1	NEG		
Particles >14 \(\mu \) ASTM D7647 >160 85 Particles >21 \(\mu \) ASTM D7647 >40 29 Particles >38 \(\mu \) ASTM D7647 >10 4 Particles >71 \(\mu \) ASTM D7647 >3 0 Particles >71 \(\mu \) ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >191/714 17/16/14 Silt Scalar "Visual NONE NONE NONE Debris Scalar "Visual NONE NONE NONE Appearance Scalar "Visual NORML NOR	oleaniness code. The system and had cleaniness is acceptable.	Particles >4µm		ASTM D7647	>5000	922		
Particles >21µm		Particles >6µm		ASTM D7647	>1300			
Particles >38µm ASTM D7647 >10 4 Particles >71µm ASTM D7647 >3 0 Particles >71µm ASTM D5185m Signary 17/16/14 Silt		•						
Particles > 71 \(\mu \)		· ·						
Oil Cleanliness								
Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE Sand/Dirt Scalar *Visual NORML NORML Sand/Dirt Scalar *Visual NORML NORML Sand/Dirt Scalar *Visual NORML NORML Sand/Dirt Scalar *Visual NORML Scalar *Visual NORML Sand/Dirt Scalar *Visual NORML Sand/Dirt Scalar *Visual NORML Sand/Dirt Scalar *Visual NORML Sand/Dirt Sand/		•				-		
Debris Scalar *Visual NONE NONE NONE Sand/Dirt Scalar *Visual NONE NONE								
Sand/Dirt Scalar *Visual NONE Appearance Scalar *Visual NORML NORML Odor Scalar *Visual NORML NORML NORML Emulsified Water Scalar *Visual NORML NORML NORML Emulsified Water Scalar *Visual Solium								
Appearance Scalar *Visual NORML NORML NORML Emulsified Water Scalar *Visual NORML NORML NORML NORML Emulsified Water Scalar *Visual NORML								
Oddr Scalar *Visual NORML NORML Full FLUID CONDITION Sodium ppm ASTM D5185m 5 0								
Emulsified Water scalar *Visual >0.1 NEG								
Sodium ppm ASTM D5185m 5 0								
Boron ppm ASTM D5185m 5 0 Barium ppm ASTM D5185m 5 1 Molybdenum ppm ASTM D5185m 5 1 Manganese ppm ASTM D5185m 5 <1 Magnesium ppm ASTM D5185m 25 2 Calcium ppm ASTM D5185m 200 48 Phosphorus ppm ASTM D5185m 300 309 Zinc ppm ASTM D5185m 370 368 Sulfur ppm ASTM D5185m 2500 1277			Scalai	VISUAI	>0.1	NEG		
Boron ppm ASTM D5185m 5 0 Barium ppm ASTM D5185m 5 1 Molybdenum ppm ASTM D5185m 5 1 Manganese ppm ASTM D5185m 5 <1 Magnesium ppm ASTM D5185m 25 2 Calcium ppm ASTM D5185m 200 48 Phosphorus ppm ASTM D5185m 300 309 Zinc ppm ASTM D5185m 370 368 Sulfur ppm ASTM D5185m 2500 1277	FLUID CONDITION	Sodium	ppm	ASTM D5185m		0		
Barium ppm ASTM D5185m 5 1 Molybdenum ppm ASTM D5185m 5 <1 Manganese ppm ASTM D5185m 5 <1 Magnesium ppm ASTM D5185m 25 2 Calcium ppm ASTM D5185m 200 48 Phosphorus ppm ASTM D5185m 300 309 Zinc ppm ASTM D5185m 370 368 Sulfur ppm ASTM D5185m 2500 1277				ASTM D5185m	5	0		
Molybdenum ppm ASTM D5185m 5 <1	The condition of the oil is acceptable for the time in service.	Barium				1		
Magnesium ppm ASTM D5185m 25 2 Calcium ppm ASTM D5185m 200 48 Phosphorus ppm ASTM D5185m 300 309 Zinc ppm ASTM D5185m 370 368 Sulfur ppm ASTM D5185m 2500 1277		Molybdenum	ppm	ASTM D5185m	5	<1		
Calcium ppm ASTM D5185m 200 48 Phosphorus ppm ASTM D5185m 300 309 Zinc ppm ASTM D5185m 370 368 Sulfur ppm ASTM D5185m 2500 1277		Manganese	ppm	ASTM D5185m		<1		
Phosphorus ppm ASTM D5185m 300 309 Zinc ppm ASTM D5185m 370 368 Sulfur ppm ASTM D5185m 2500 1277		Magnesium	ppm	ASTM D5185m	25	2		
Zinc ppm ASTM D5185m 370 368 Sulfur ppm ASTM D5185m 2500 1277		Calcium	ppm	ASTM D5185m	200	48		
Sulfur ppm ASTM D5185m 2500 1277		Phosphorus	ppm	ASTM D5185m	300	309		
			ppm	ASTM D5185m	370			
Visc @ 40°C cSt ASTM D445 46 45.9					2500	1277		
		Visc @ 40°C	cSt	ASTM D445	46	45.9		







Certificate L2367

Laboratory Sample No. Unique Number: 10983634

: WC06153556 Lab Number : 06153556

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

Received : 18 Apr 2024 **Tested** Diagnosed Test Package: MOB 1 (Additional Tests: PRTCOUNT)

: 23 Apr 2024 : 23 Apr 2024 - Wes Davis

NZ 3110 Contact: SCOTT NICHOLLS scott@astrea.co.nz

T: (642)145-5680 F: x:

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)

GLOBAL OIL NZ

62B MILTON RD

OTUMOETAI, ZZ