WEAR CONTAMINATION FLUID CONDITION

NORMAL ABNORMAL SEVERE

TACZO US120241 (S/N EY1826)

Component Hydraulic System

HVDIIRANCE AW N7 32 (-

Test UCM Method Corrent Browner History Hi	HYDURANCE AW NZ 32 (GAL)							
We advise that you check for a possible overheat condition. We recommend that and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition. Machine Age hrs Client Info 0 Coll Age hrs Client Info 0 Coll Age hrs Client Info 0 Coll Age hrs Client Info 0 Client Info NA Client Info NA Client Info NA Client Info NA Client Info NA Client Info NA Client Info NA Client Info NA Client Info NA	RECOMMENDATION		UOM		Limit/Abn		-	
Machine Age Ints Client Info 0 .	recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to							
CONTAMINATION CONTAMINATION Silicon pom ASTINCESIES Color No. No. CONTAMINATION There is a high amount of particulates present in the oil. Silicon pom ASTINCESIES 20 0		·	hre			-		
Filter Age Priss Cilent Info		•				-		
Oil Changed Cilent Info NA NA NA NA NA NA NA N								
Filter Changed Sample Status		•	1113					
VEAR								
VEAR				Oliciti IIIIo				
All component wear rates are normal. Nickel ppm								
All component wear rates are normal. Nockel ppm		Iron	ppm	ASTM D5185m	>20	3		
Titanium ppm ASTM D5185m 0		Chromium	ppm	ASTM D5185m	>20	0		
Silver ppm ASTM 05185m 20 0		Nickel	ppm	ASTM D5185m	>20	0		
Silver ppm ASTM 05185m > 20 0		Titanium	ppm	ASTM D5185m		0		
Aluminum Dopm ASTM DSISSm 2-0 0 Copper Dopm ASTM DSISSm 2-0 0 Tin Dopm ASTM DSISSm 1-5 1 Tin Dopm ASTM DSISSm 1-5 1 Tin Dopm ASTM DSISSm 1-5 1 1 Tin Dopm ASTM DSISSm 1-5 1 1 Tin Dopm ASTM DSISSm 1-5 1 1 Tin Dopm ASTM DSISSm 1-5 1 1 Tin Dopm ASTM DSISSm 1-5 1 1 Tin Dopm ASTM DSISSm 1-5 1 1 Tin Dopm ASTM DSISSm 1-5 1 1 Tin Dopm ASTM DSISSm 1-5 1 1 Tin Dopm ASTM DSISSm 1-5 1 1 Tin Dopm ASTM DSISSm 1-5 1 1 Tin Dopm ASTM DSISSm 1-5 1 1 Tin Dopm ASTM DSISSm 1-5 1 1 Tin Dopm ASTM DSISSm 1-5 1 1 Tin Dopm ASTM DSISSm 1-5 1 1 Tin Dopm ASTM DSISSm 1-5 1 1 Tin Dopm ASTM DSISSm 1-5 1 1 Tin Dopm ASTM DSISSm 1-5 1 1 Tin Dopm ASTM DSISSm 1-		Silver				0		
Lead ppm ASTM D8185m >20 1 Tin ppm ASTM D8185m >20 1 Tin ppm ASTM D8185m >20 0 Vanadium ppm ASTM D8185m >20 0 Vanadium ppm ASTM D8185m >20 0 Visual NONE NONE Visual NONE NONE Visual NONE NONE Vanadium ppm ASTM D8185m >20 2 Vanadium Particles >4µm ASTM D7847 >5000 Pravadium Particles >4µm ASTM D7847 >100 Pravadium Pravadi		Aluminum		ASTM D5185m	>20	0		
Copper ppm ASTM DS185m > 20 1						0		
Tin				ASTM D5185m	>20			
Vanadium ppm ASTM D5185m NONE NONE								
White Metal Yellow Metal Ye			• •		7 = 0			
Yellow Metal Scalar Visual NONE N					NONE			
Silicon ppm ASTM D5185m >1.5 <1								
Potassium								
Potassium	CONTAMINATION	Silicon	ppm	ASTM D5185m	>15	<1		
Particles >4µm		Potassium	ppm	ASTM D5185m	>20	2		
Particles > 6µm ASTM D7647 >1300 A 10779 Particles > 14µm ASTM D7647 >160 A 114 Particles > 38µm ASTM D7647 >10 4 Particles > 38µm ASTM D7647 >10 4 Particles > 71µm ASTM D7647 >10 4 Particles > 71µm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) 5191/174 >3 0 Silt Scalar *Visual NONE NONE NONE NONE Sand/Dirt Scalar *Visual NONE NONE NONE Appearance Scalar *Visual NONE NONE NONE Appearance Scalar *Visual NONE NONE NONE Appearance Scalar *Visual NORML N	There is a high amount of particulates present in the oil.	Water	%	ASTM D6304	>0.05	NEG		
Particles >14μm ASTM D7647 >160		Particles >4µm		ASTM D7647	>5000	4 97249		
Particles > 21 µm		Particles >6µm		ASTM D7647	>1300	10779		
Particles >38µm ASTM D7647 >10 4 Particles >71µm ASTM D7647 >3 0 Oil Cleanliness SIG 4406 (c) 19l17ll 4 24/21/16 Silt Scalar *Visual NONE NONE NONE Debris Scalar *Visual NONE NONE NONE Sand/Dirt Scalar *Visual NORM NONE NONE NONE Appearance Scalar *Visual NORM NORM NORM NORM Appearance Scalar *Visual NORM NORM NORM NORM Appearance Scalar *Visual NORM NORM NORM Emulsified Water Scalar *Visual >0.05 NEG The AN level is well above the recommended limit. The oil viscosity is higher than normal. The oil is no longer serviceable. Sodium Scalar *Visual NORM NORM NORM NORM NORM Boron Scalar *Visual >0.05 NEG Mayobenum ppm ASTM D5185m 0 Magnaese ppm ASTM D5185m 0 Magnaesium ppm ASTM D5185m 3 Calcium ppm ASTM D5185m 23 Sulfur ppm ASTM D5185m 21 Sulfur ppm ASTM D5185m 1569 Acid Number (AN) mg KOHig ASTM D5045 1569 Acid Number (AN) mg KOHig ASTM D5045 13.45		Particles >14μm		ASTM D7647	>160	471		
Particles > 71 µm ASTM D7647 > 3 0 Oil Cleanliness ISO 4406 (c) > 191/114 24/21/16 Silt scalar "Visual NONE NONE NONE Debris scalar "Visual NONE NONE NONE Sand/Dirt scalar "Visual NONE NONE NONE Appearance scalar "Visual NORML NORML NORML NORML Appearance scalar "Visual NORML NORML NORML NORML NORML NORML The AN level is well above the recommended limit. The oil viscosity is higher than normal. The oil is no longer serviceable.		Particles >21µm		ASTM D7647	>40	114		
Oil Cleanliness ISO 4406 (c) x1917/14 A 24/21/16 Silt scalar *Visual NONE NONE Sand/Dirt scalar *Visual NONE		Particles >38µm		ASTM D7647	>10	4		
Silt scalar *Visual NONE NORE NONE NORE N		Particles >71µm		ASTM D7647	>3	0		
Debris Scalar *Visual NONE NONE NONE Sand/Dirt Scalar *Visual NONE NONE		Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u> 24/21/16</u>		
Sand/Dirt Scalar *Visual NONE NONE Appearance Scalar *Visual NORML NORML NORML NORML Codor Scalar *Visual NORML NOR		Silt	scalar			NONE		
Sand/Dirt Scalar *Visual NONE NONE Appearance Scalar *Visual NORML NORML NORML NORML Odor Scalar *Visual NORML NORM		Debris	scalar	*Visual	NONE	NONE		
Odor scalar *Visual NORML FLUID CONDITION The AN level is well above the recommended limit. The oil viscosity is higher than normal. The oil is no longer serviceable. Sodium ppm ASTM D5185m 0 Molybdenum ppm ASTM D5185m 0 Manganese ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 3 Calcium ppm ASTM D5185m 23 Phosphorus ppm ASTM D5185m 579 Zinc ppm ASTM D5185m 21 Sulfur ppm ASTM D5185m 1569 Acid Number (AN) mg KOH/g ASTM D8045 13.45		Sand/Dirt	scalar	*Visual	NONE	NONE		
Emulsified Water scalar *Visual >0.05 NEG		Appearance	scalar	*Visual	NORML	NORML		
FLUID CONDITION The AN level is well above the recommended limit. The oil viscosity is higher than normal. The oil is no longer serviceable. Sodium ppm ASTM D5185m 0 0 Molybdenum ppm ASTM D5185m 0 Manganese ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 3 Calcium ppm ASTM D5185m 23 Phosphorus ppm ASTM D5185m 579 Zinc ppm ASTM D5185m 21 Sulfur ppm ASTM D5185m 1569 Acid Number (AN) mg KOH/g ASTM D8045 13.45		Odor	scalar	*Visual	NORML	NORML		
Boron ppm ASTM D5185m 0		Emulsified Water	scalar	*Visual	>0.05	NEG		
Boron ppm ASTM D5185m 0								
The AN level is well above the recommended limit. The oil viscosity is higher than normal. The oil is no longer serviceable. Barium ppm ASTM D5185m 0 Molybdenum ppm ASTM D5185m 0 Manganese ppm ASTM D5185m 3 Magnesium ppm ASTM D5185m 23 Phosphorus ppm ASTM D5185m 579 Zinc ppm ASTM D5185m 21 Sulfur ppm ASTM D5185m 1569 Acid Number (AN) mg KOH/g ASTM D8045 13.45	FLUID CONDITION		ppm					
Migher than normal. The oil is no longer serviceable. Molybdenum ppm ASTM D5185m 0 Manganese ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 3 Calcium ppm ASTM D5185m 23 Phosphorus ppm ASTM D5185m 579 Zinc ppm ASTM D5185m 21 Sulfur ppm ASTM D5185m 1569 Acid Number (AN) mg KOH/g ASTM D8045 13.45	The AN level is well shows the recommended limit. The oil viceosity is		ppm					
Manganese ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 3 Calcium ppm ASTM D5185m 23 Phosphorus ppm ASTM D5185m 579 Zinc ppm ASTM D5185m 21 Sulfur ppm ASTM D5185m 1569 Acid Number (AN) mg KOH/g ASTM D8045			ppm					
Magnesium ppm ASTM D5185m 3 Calcium ppm ASTM D5185m 23 Phosphorus ppm ASTM D5185m 579 Zinc ppm ASTM D5185m 21 Sulfur ppm ASTM D5185m 1569 Acid Number (AN) mg KOH/g ASTM D8045 13.45		•	ppm					
Calcium ppm ASTM D5185m 23 Phosphorus ppm ASTM D5185m 579 Zinc ppm ASTM D5185m 21 Sulfur ppm ASTM D5185m 1569 Acid Number (AN) mg KOH/g ASTM D8045 13.45			• •					
Phosphorus ppm ASTM D5185m 579 Zinc ppm ASTM D5185m 21 Sulfur ppm ASTM D5185m 1569 Acid Number (AN) mg KOH/g ASTM D8045 13.45		0	ppm					
Zinc ppm ASTM D5185m 21 Sulfur ppm ASTM D5185m 1569 Acid Number (AN) mg KOH/g ASTM D8045 13.45		Calcium	ppm					
Sulfur ppm ASTM D5185m 1569 Acid Number (AN) mg KOH/g ASTM D8045 13.45		•	ppm					
Acid Number (AN) mg KOH/g ASTM D8045 13.45			ppm					
Visc @ 40°C cSt ASTM D445		. ,				*		
		Visc @ 40°C	cSt	ASTM D445		84.3		





Certificate L2367

Laboratory Sample No.

Lab Number : 05815296 Unique Number: 10418088

: BB0000177 Test Package : PLANT

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 10 Apr 2023 **Tested** : 13 Apr 2023

: 13 Apr 2023 - Jonathan Hester Diagnosed

TK Elevator - Kirkland 12530 135th Ave NE Kirkland, WA US 98034 Contact: Chuck Rife chuck.rife@tkelevator.com

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)

T: F: