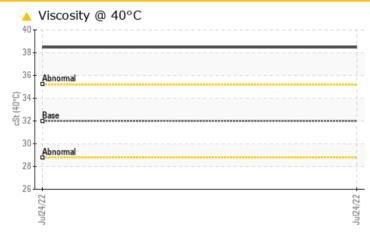


PROBLEM SUMMARY

Area Machine Id INGERSOLL RAND 1- BLACKHAWK MINING (S/N NOT GIVEN) Component Compressor

COMPONENT CONDITION SUMMARY



RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS									
Sample Status				ATTENTION					
Visc @ 40°C	cSt	ASTM D445	32	A 38.47					

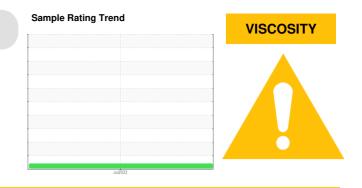
Customer Id: UCTOTSAI Sample No.: UCH05599593 Lab Number: 05599593 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 jhester@wearcheckusa.com

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com



There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Area ISO 32 **INGERSOLL RAND 1- BLACKHAWK MINING** Component

Compressor

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The oil viscosity is higher than normal. Confirm oil type. The AN level is acceptable for this fluid.

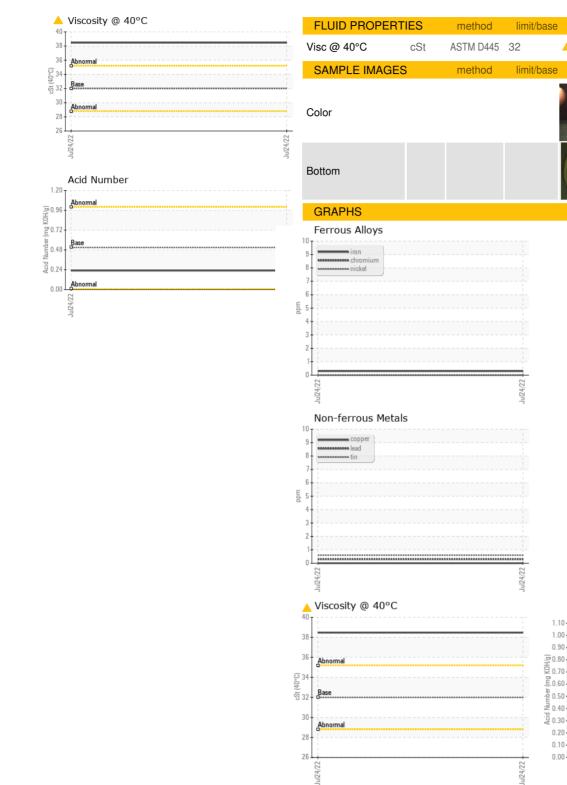
NG (S/N NOT G	iven)					
				Jul2022		
SAMPLE INFORM	NATION	method	limit/base	current	history1	history2
Sample Number		Client Info		UCH05599593		
Sample Date		Client Info		24 Jul 2022		
Machine Age	hrs	Client Info		0		
Dil Age	hrs	Client Info		0		
Dil Changed		Client Info		N/A		
Sample Status				ATTENTION		
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>50	<1		
Chromium	ppm	ASTM D5185m	>10	0		
lickel	ppm	ASTM D5185m		0		
ītanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m		2		
Aluminum	ppm	ASTM D5185m	>25	3		
ead	ppm	ASTM D5185m	>25	<1		
Copper	ppm	ASTM D5185m	>50	0		
īn	ppm	ASTM D5185m	>15	<1		
/anadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		<1		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	2		
Barium	ppm	ASTM D5185m	5	330		
/lolybdenum	ppm	ASTM D5185m	5	<1		
•				0		
langanese	ppm	ASTM D5185m				
Manganese Magnesium	ppm ppm	ASTM D5185m	5	2		
Manganese Magnesium Calcium	ppm ppm	ASTM D5185m ASTM D5185m	5	394		
Manganese Magnesium Calcium Phosphorus	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	5 150	394 156		
Manganese Magnesium Calcium Phosphorus Linc	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	5 150 5	394 156 124		
Manganese Magnesium Calcium Phosphorus Linc	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	5 150	394 156		
Manganese Magnesium Calcium Phosphorus Linc	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	5 150 5	394 156 124		
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	5 150 5 5000	394 156 124 2285		
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method	5 150 5 5000 limit/base	394 156 124 2285 current	 history1	 history2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	5 150 5 5000 limit/base	394 156 124 2285 current <1	 history1	 history2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	5 150 5 5000 limit/base >25 >20	394 156 124 2285 current <1 12 0	 history1 	 history2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	5 150 5 5000 limit/base >25	394 156 124 2285 current <1 12	 history1 	 history2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID DEGRADA	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	5 150 5 5000 limit/base >25 >20 limit/base	394 156 124 2285 current <1 12 0 current	 history1 history1	 history2
Manganese Magnesium Calcium Phosphorus Cinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID DEGRADA Acid Number (AN) VISUAL	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D80455 method	5 150 5 5000 limit/base >25 >20 limit/base 0.51 limit/base	394 156 124 2285 current <1 12 0 current 0.23 current	 history1 history1 	 history2 history2
Vanganese Vagnesium Calcium Phosphorus Cinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID DEGRADA Nacid Number (AN) VISUAL Vhite Metal	ppm ppm ppm ppm ppm ppm ppm ppm xTION mg KOH/g	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method *Visual	5 150 5 5000 limit/base >25 20 limit/base 0.51 limit/base NONE	394 156 124 2285 current <1 12 0 current 0.23 current NONE	 history1 history1 history1	 history2 history2 history2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID DEGRADA Acid Number (AN) VISUAL Vhite Metal Yellow Metal	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D80455 method	5 150 5 5000 limit/base >25 >20 limit/base 0.51 limit/base	394 156 124 2285 current <1 12 0 current 0.23 current	 history1 history1 history1 	 history2 history2 history2
Vanganese Aagnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID DEGRADA Acid Number (AN) VISUAL Vhite Metal Vellow Metal Precipitate	ppm ppm ppm ppm ppm ppm ppm ppm ppm triON	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D8045 Method *Visual	5 150 5 5000 limit/base >25 20 limit/base 0.51 limit/base NONE NONE	394 156 124 2285 current <1 12 0 current 0.23 current NONE NONE	 history1 history1 history1 	 history2 history2 history2
Aaganese Aagnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID DEGRADA Acid Number (AN) VISUAL Vhite Metal Vellow Metal Precipitate Silt	ppm ppm ppm ppm ppm ppm ppm ppm ppm xTION mg KOH/g scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D8045 Method *Visual *Visual	5 150 5 5000 limit/base >25 limit/base 0.51 limit/base NONE NONE NONE	394 156 124 2285 current <1 12 0 current 0.23 current NONE NONE NONE NONE	 history1 history1 history1	 history2 history2 history2
Aanganese Aagnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID DEGRADA Acid Number (AN) VISUAL Vhite Metal Vellow Metal Precipitate Silt Debris	ppm ppm ppm ppm ppm ppm ppm ppm X TION x x scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D8045 Method *Visual *Visual *Visual	5 150 5 5000 limit/base >25 20 limit/base 0.51 limit/base NONE NONE NONE NONE	394 156 124 2285 current <1 12 0 current 0.23 current NONE NONE NONE NONE	 history1 history1 history1 	 history2 history2 history2 history2
Aagnese Aagnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID DEGRADA Acid Number (AN) VISUAL Vhite Metal Yellow Metal Precipitate Silt Debris Sand/Dirt	ppm ppm ppm ppm ppm ppm ppm ppm ppm xTION xTION xCH/g scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D8045 Visual *Visual *Visual *Visual *Visual	5 150 5 5000 limit/base >25 20 limit/base 0.51 limit/base NONE NONE NONE NONE NONE NONE	394 156 124 2285 current <1 12 0 current 0.23 current NONE NONE NONE NONE NONE NONE	 history1 history1 history1 	 history2 history2 history2 history2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID DEGRADA Acid Number (AN)	ppm ppm ppm ppm ppm ppm ppm ppm vrionv vrionv scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D8045 Visual *Visual *Visual *Visual *Visual *Visual	5 150 5 5000 limit/base >25 20 limit/base 0.51 limit/base NONE NONE NONE NONE NONE NONE NONE	394 156 124 2285 current <1 12 0 current 0.23 current NONE NONE NONE NONE NONE NONE NONE	 history1 history1 history1 history1 	 history2 history2 history2 history2
Aagnese Aagnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID DEGRADA Acid Number (AN) VISUAL White Metal Cellow Metal Precipitate Silt Debris Sand/Dirt Appearance	ppm ppm ppm ppm ppm ppm ppm ppm vrionv vrionv scalar scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D8045 Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual	5 150 5 5000 limit/base >25 limit/base 0.51 limit/base NONE NONE NONE NONE NONE NONE NONE NONE	394 156 124 2285 current <1 12 0 current 0.23 current NONE NONE NONE NONE NONE NONE NONE NON	 history1 history1 history1 	 history2 history2 history2

Sample Rating Trend

VISCOSITY



OIL ANALYSIS REPORT



Acid Number Ab Abn TOTAL EQUIPMENT COMPANY : WearCheck USA - 501 Madison Ave., Cary, NC 27513 200 SMILEY DR SAINT ALBANS, WV Diagnostician : Jonathan Hester US 25177 Contact: T: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F:

history2

history2

no image

no image

history1

history1

no image

no image

current

current

38.47

Certificate L2367

Laboratory

Sample No.

Lab Number

Unique Number : 10064073

Test Package : IND 2

: UCH05599593

: 05599593

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.

Received

Diagnosed

: 25 Jul 2022

: 28 Jul 2022

Contact/Location: ? ? - UCTOTSAI Page 4 of 4