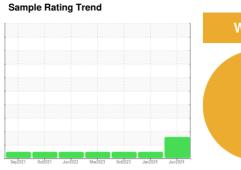


OIL ANALYSIS REPORT

TE-PAG 46 [85438]

INGERSOLL RAND NV3587U09103 - CAMBRIDGE INTL

Component





Recommendation

We advise that you follow the water drain-off procedure for this component. Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is a light concentration of water present in the

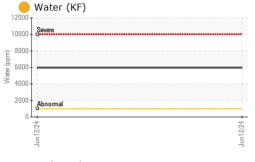
Fluid Condition

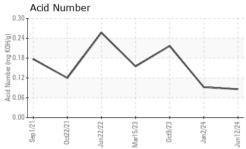
The AN level is acceptable for this fluid.

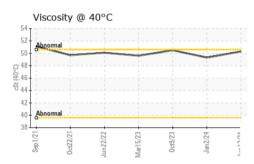
Sample Date	SAMPLE INFORM	MOITAN	method	limit/base	current	history1	history2
Sample Date	Sample Number		Client Info		UCH06208822	UCH06050099	UCH05977207
Dil Age	Sample Date		Client Info		12 Jun 2024	02 Jan 2024	09 Oct 2023
Not Changed Client Info Not Changed Not Changed Not Changed Normal Nor	Machine Age	hrs	Client Info		66129	66059	66000
ATTENTION NORMAL NORMAL	Oil Age	hrs	Client Info		0	0	55
WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >50 0 0 0 Chromium ppm ASTM D5185m >10 0 0 0 Nickel ppm ASTM D5185m 0 0 0 0 Silver ppm ASTM D5185m 0 0 0 0 Aluminum ppm ASTM D5185m >25 0 <1	Oil Changed		Client Info		Not Changd	Changed	Not Changd
Iron	Sample Status				ATTENTION	NORMAL	NORMAL
Chromium ppm ASTM D5185m >10 0 0 0 Nickel ppm ASTM D5185m 0 <1	WEAR METALS		method	limit/base	current	history1	history2
Nickel	Iron	ppm	ASTM D5185m	>50	0	0	0
Titanium ppm ASTM D5185m 0 0 0 Silver ppm ASTM D5185m 0 0 0 Aluminum ppm ASTM D5185m >25 0 <1	Chromium	ppm	ASTM D5185m	>10	0	0	0
Silver	Nickel	ppm	ASTM D5185m		0	<1	<1
Aluminum	Titanium	ppm	ASTM D5185m		0	0	0
Lead ppm ASTM D5185m >25 0 0 0 Copper ppm ASTM D5185m >50 0 <1 0 Tin ppm ASTM D5185m >15 1 1 <1 Vanadium ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 0 0 0 Barium ppm ASTM D5185m 0 0 0 0 Barium ppm ASTM D5185m 0 0 0 0 Manganese ppm ASTM D5185m 0 2 2 2 Calcium ppm ASTM D5185m 0 2 5 2 Phosphorus ppm ASTM D5185m 0 0 0 0 </td <td>Silver</td> <td>ppm</td> <td>ASTM D5185m</td> <td></td> <td>0</td> <td>0</td> <td>0</td>	Silver	ppm	ASTM D5185m		0	0	0
Copper ppm ASTM D5185m >50 0 <1 0 Tin ppm ASTM D5185m >15 1 1 <1	Aluminum	ppm	ASTM D5185m	>25	0	<1	<1
Tin ppm ASTM D5185m >15 1 1 <1 <1 <1 <1 <1 Vanadium ppm ASTM D5185m 0	Lead	ppm	ASTM D5185m	>25	0	0	0
Vanadium ppm ASTM D5185m 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 0 0 Barium ppm ASTM D5185m 0 0 0 Molybdenum ppm ASTM D5185m 0 0 0 Manganese ppm ASTM D5185m 0 0 0 Magnesium ppm ASTM D5185m 0 2 2 Calcium ppm ASTM D5185m 7 8 <1 Zinc ppm ASTM D5185m 0 0 0 0 Sulfur ppm ASTM D5185m 693 611 637 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 2 4 <th< td=""><td>Copper</td><td>ppm</td><td>ASTM D5185m</td><td>>50</td><td>0</td><td><1</td><td>0</td></th<>	Copper	ppm	ASTM D5185m	>50	0	<1	0
Cadmium ppm ASTM D5185m 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 0 0 Barium ppm ASTM D5185m 0 0 0 Molybdenum ppm ASTM D5185m 0 0 0 Manganese ppm ASTM D5185m 0 0 0 Magnesium ppm ASTM D5185m 0 2 2 2 Calcium ppm ASTM D5185m 7 8 <1	Tin	ppm	ASTM D5185m	>15	1	1	<1
ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 0 0 Barium ppm ASTM D5185m 459 449 442 Molybdenum ppm ASTM D5185m 0 0 0 Manganese ppm ASTM D5185m 0 0 0 Magnesium ppm ASTM D5185m 0 2 2 Calcium ppm ASTM D5185m 0 2 5 Phosphorus ppm ASTM D5185m 7 8 <1	Vanadium	ppm	ASTM D5185m		0	0	0
Boron ppm ASTM D5185m 0 0 0 Barium ppm ASTM D5185m 459 449 442 Molybdenum ppm ASTM D5185m 0 0 0 Manganese ppm ASTM D5185m 0 0 0 Magnesium ppm ASTM D5185m 0 2 2 Calcium ppm ASTM D5185m 7 8 <1 Zinc ppm ASTM D5185m 0 0 0 Sulfur ppm ASTM D5185m 693 611 637 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 <1 <1 <1 Sodium ppm ASTM D5185m >20 2 4 0 Water % ASTM D6304 >0.1 0.5966 ppm ASTM D6304 >1000 5960 <td>Cadmium</td> <td>ppm</td> <td>ASTM D5185m</td> <td></td> <td>0</td> <td>0</td> <td>0</td>	Cadmium	ppm	ASTM D5185m		0	0	0
Barium ppm ASTM D5185m 459 449 442 Molybdenum ppm ASTM D5185m 0 0 0 Manganese ppm ASTM D5185m 0 0 0 Magnesium ppm ASTM D5185m 0 2 2 Calcium ppm ASTM D5185m 0 2 5 Phosphorus ppm ASTM D5185m 7 8 <1 Zinc ppm ASTM D5185m 0 0 0 Sulfur ppm ASTM D5185m 693 611 637 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 <1 <1 <1 Sodium ppm ASTM D5185m >20 2 4 0 Water % ASTM D6304 >0.1 0.5996 ppm Water ppm ASTM D6304 >1000 <th>ADDITIVES</th> <th></th> <th>method</th> <th>limit/base</th> <th>current</th> <th>history1</th> <th>history2</th>	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5185m 0 0 0 Manganese ppm ASTM D5185m 0 0 0 Magnesium ppm ASTM D5185m 0 2 2 Calcium ppm ASTM D5185m 0 2 5 Phosphorus ppm ASTM D5185m 7 8 <1 Zinc ppm ASTM D5185m 0 0 0 Sulfur ppm ASTM D5185m 693 611 637 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 <1 <1 <1 Sodium ppm ASTM D5185m >20 2 4 0 Water % ASTM D6304 >0.1 0.5966 ppm ASTM D6304 >1000 5960 FLUID DEGRADATION method limit/base current <td>Boron</td> <td>ppm</td> <td>ASTM D5185m</td> <td></td> <td>0</td> <td>0</td> <td>0</td>	Boron	ppm	ASTM D5185m		0	0	0
Manganese ppm ASTM D5185m 0 0 0 Magnesium ppm ASTM D5185m 0 2 2 Calcium ppm ASTM D5185m 0 2 5 Phosphorus ppm ASTM D5185m 7 8 <1 Zinc ppm ASTM D5185m 0 0 0 Sulfur ppm ASTM D5185m 693 611 637 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 <1 <1 <1 Sodium ppm ASTM D5185m >20 2 4 0 Water % ASTM D6304 >0.1 0.596 ppm Water ppm ASTM D6304 >1000 5960 FLUID DEGRADATION method limit/base current history1 history2	Barium	ppm	ASTM D5185m		459	449	442
Magnesium ppm ASTM D5185m 0 2 2 Calcium ppm ASTM D5185m 0 2 5 Phosphorus ppm ASTM D5185m 7 8 <1 Zinc ppm ASTM D5185m 0 0 0 Sulfur ppm ASTM D5185m 693 611 637 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 <1 <1 <1 Sodium ppm ASTM D5185m >25 <1 <1 <1 Potassium ppm ASTM D5185m >20 2 4 0 Water % ASTM D6304 >0.1 0.5966 ppm Water ppm ASTM D6304 >1000 5960 FLUID DEGRADATION method limit/base current history1 history2	Molybdenum	ppm	ASTM D5185m		0	0	0
Calcium ppm ASTM D5185m 0 2 5 Phosphorus ppm ASTM D5185m 7 8 <1	Manganese	ppm	ASTM D5185m		0	0	0
Phosphorus ppm ASTM D5185m 7 8 <1 Zinc ppm ASTM D5185m 0 0 0 Sulfur ppm ASTM D5185m 693 611 637 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 <1 <1 <1 Sodium ppm ASTM D5185m >25 <1 <1 <1 <1 Potassium ppm ASTM D5185m >20 2 4 0 Water % ASTM D6304 >0.1 0.5966 ppm Water ppm ASTM D6304 >1000 5960 FLUID DEGRADATION method limit/base current history1 history2	Magnesium	ppm	ASTM D5185m				
Zinc ppm ASTM D5185m 0 0 0 Sulfur ppm ASTM D5185m 693 611 637 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 <1 <1 <1 Sodium ppm ASTM D5185m 17 21 15 Potassium ppm ASTM D5185m >20 2 4 0 Water % ASTM D6304 >0.1 0.5966 ppm Water ppm ASTM D6304 >1000 5960 FLUID DEGRADATION method limit/base current history1 history2	Calcium	ppm	ASTM D5185m		-		5
Sulfur ppm ASTM D5185m 693 611 637 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 <1	Phosphorus	ppm	ASTM D5185m		-		<1
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 <1	Zinc	ppm	ASTM D5185m		0	0	0
Silicon ppm ASTM D5185m >25 <1 <1 <1 Sodium ppm ASTM D5185m 17 21 15 Potassium ppm ASTM D5185m >20 2 4 0 Water % ASTM D6304 >0.1 0.596 ppm Water ppm ASTM D6304 >1000 5960 FLUID DEGRADATION method limit/base current history1 history2	Sulfur	ppm	ASTM D5185m		693	611	637
Sodium ppm ASTM D5185m 17 21 15 Potassium ppm ASTM D5185m >20 2 4 0 Water % ASTM D6304 >0.1 0.596 ppm Water ppm ASTM D6304 >1000 5960 FLUID DEGRADATION method limit/base current history1 history2	CONTAMINANTS		method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m >20 2 4 0 Water % ASTM D6304 >0.1 0.596 ppm Water ppm ASTM D6304 >1000 5960 FLUID DEGRADATION method limit/base current history1 history2	Silicon	ppm	ASTM D5185m	>25	<1	<1	<1
Water % ASTM D6304 >0.1 0.596 ppm Water ppm ASTM D6304 >1000 5960 FLUID DEGRADATION method limit/base current history1 history2	Sodium	ppm	ASTM D5185m		17	21	15
ppm Water ppm ASTM D6304 >1000 5960 FLUID DEGRADATION method limit/base current history1 history2	Potassium	ppm	ASTM D5185m	>20	2	4	0
FLUID DEGRADATION method limit/base current history1 history2	Water	%	ASTM D6304	>0.1	0.596		
	ppm Water	ppm	ASTM D6304	>1000	5960		
Acid Number (AN) mg KOH/g ASTM D8045 0.086 0.092 0.217	FLUID DEGRADA	ATION	method	limit/base	current	history1	history2



OIL ANALYSIS REPORT







VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
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	0.2%	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

I LOID I HOI LIT	1120				
Visc @ 40°C	cSt	ASTM D445	50.3	49.3	50.5

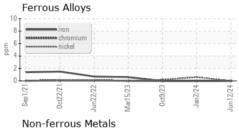
SAMPLE IMAGES method limit/base current	
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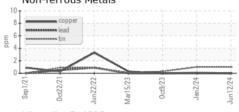
Color

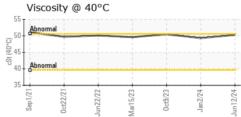


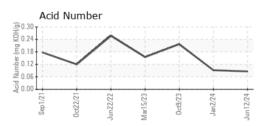


GRAPHS













Laboratory Sample No.

: UCH06208822 Lab Number : 06208822 Unique Number : 11076283

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

: 13 Jun 2024 : 17 Jun 2024

: 17 Jun 2024 - Don Baldridge

TATE ENGINEERING 2030 SHIPLEY DR SALISBURY, MD US 21801 Contact: DOUG THIERFELDT

Test Package : IND 2 (Additional Tests: KF) Certificate 12367 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)

F: (410)546-3461 Contact/Location: DOUG THIERFELDT - UCTATSAL

T: (410)928-4398