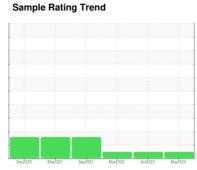


OIL ANALYSIS REPORT

NCS HT EXTREME [1407978] SULLAIR 003-84872 - MITSUBISHI CHEMICAL

Component Compressor





DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

Fluid Condition

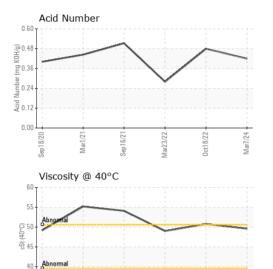
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sample Number Client Info UCH06137552 UCH06694112 UCH056965 Sample Date Client Info 07 Mar 2024 18 Oct 2022 23 Mar 202 Machine Age hrs Client Info 49343 42828 40454 Oil Age hrs Client Info 2012 30035 661 Oil Changed Client Info Not Changd Not Changd Not Changd Not Changd Sample Status Client Info Not Changd Not Changd							
Sample Date	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Machine Age hrs Client Info 49343 42828 40454 Oil Age hrs Client Info 2012 3035 661 Oil Changed Client Info Not Changd Not Changd Not Changd Sample Status NORMAL NORMAL NORMAL NORMAL CONTAMINATION method Imitibase current history1 Water WC Method >0.1 NEG NEG WEAR METALS method limit/base current history1 history1 Iron ppm ASTM D5185m >50 0 0 <1	Sample Number		Client Info		UCH06137552	UCH05694112	UCH05506583
Oil Age	Sample Date		Client Info		07 Mar 2024	18 Oct 2022	23 Mar 2022
Oil Changed Sample Status Client Info Not Changd NORMAL Not Changd NORMAL Not Changd NORMAL Not Changd NORMAL	Machine Age	hrs	Client Info		49343	42828	40454
NORMAL NORMAL NORMAL CONTAMINATION method limit/base current history1 history	Oil Age	hrs	Client Info		2012	3035	661
CONTAMINATION method limit/base current history1 history1 Water WC Method >0.1 NEG NEG NEG WEAR METALS method limit/base current history1 history1 Iron ppm ASTM D5185m >50 0 0 <1	Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Water WC Method >0.1 NEG NEG NEG WEAR METALS method limit/base current history1 history1 Iron ppm ASTM D5185m >50 0 0 <1 Chromium ppm ASTM D5185m >10 0 0 0 Nickel ppm ASTM D5185m 0 0 0 <1 Titanium ppm ASTM D5185m 0 0 0 <1 Aluminum ppm ASTM D5185m >25 0 0 0 Lead ppm ASTM D5185m >25 0 0 0 Lead ppm ASTM D5185m >50 0 <1 <1 Tin ppm ASTM D5185m >50 0 <1 <1 Antimony ppm ASTM D5185m 0 0 <1 <1 Vanadium ppm ASTM D5185m 0 0 <1 <1 <td>Sample Status</td> <td></td> <td></td> <td></td> <th>NORMAL</th> <td>NORMAL</td> <td>NORMAL</td>	Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS method limit/base current history1 history1 Iron ppm ASTM D5185m >50 0 0 <1 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 0 0 Lead ppm ASTM D5185m >25 0 0 0 Copper ppm ASTM D5185m >50 0 <1 <1 Tin ppm ASTM D5185m >50 0 <1 <1 Antimony ppm ASTM D5185m 0 0 <1 <1 Vanadium ppm ASTM D5185m 0 0 0 Cadmium ppm ASTM D5185m 0 0 <1 0 </th <th>CONTAMINATIO</th> <th>N</th> <th>method</th> <th>limit/base</th> <th>current</th> <th>history1</th> <th>history2</th>	CONTAMINATIO	N	method	limit/base	current	history1	history2
Iron	Water		WC Method	>0.1	NEG	NEG	NEG
Chromium ppm ASTM D5185m >10 0 0 0 Nickel ppm ASTM D5185m 0 0 <1	WEAR METALS		method	limit/base	current	history1	history2
Nickel	Iron	ppm	ASTM D5185m	>50	0	0	<1
Titanium ppm ASTM D5185m 0 0 0 Silver ppm ASTM D5185m 0 0 <1	Chromium	ppm	ASTM D5185m	>10	0	0	0
Silver ppm ASTM D5185m 0 0 <1 Aluminum ppm ASTM D5185m >25 0 0 0 Lead ppm ASTM D5185m >25 0 0 0 Copper ppm ASTM D5185m >50 0 <1 <1 Tin ppm ASTM D5185m >15 0 0 <1 Antimony ppm ASTM D5185m 0 0 0 <1 Vanadium ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 Boron ppm ASTM D5185m 0 <1 0 Barium ppm ASTM D5185m 0 <1 0 Molybdenum ppm ASTM D5185m 0 0 0 Magnesium ppm ASTM D5185m 0 0 0 Calcium ppm ASTM D5185m	Nickel	ppm	ASTM D5185m		0	0	<1
Aluminum ppm ASTM D5185m >25 0 0 0 Lead ppm ASTM D5185m >25 0 0 0 Copper ppm ASTM D5185m >50 0 <1	Titanium	ppm	ASTM D5185m		0	0	0
Lead ppm ASTM D5185m >25 0 0 0 Copper ppm ASTM D5185m >50 0 <1 <1 Tin ppm ASTM D5185m >15 0 0 <1 Antimony ppm ASTM D5185m Vanadium ppm ASTM D5185m 0 0 0 Vanadium ppm ASTM D5185m 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 Boron ppm ASTM D5185m 0 <1 0 Barium ppm ASTM D5185m 6 0 <1 0 Barium ppm ASTM D5185m 0 0 0 0 Malagnesium ppm ASTM D5185m 0 0 0 0 Calcium ppm ASTM D5185m 22 14 36 Zinc ppm ASTM D5185m 0	Silver	ppm	ASTM D5185m		0	0	<1
Copper ppm ASTM D5185m >50 0 <1 <1 Tin ppm ASTM D5185m >15 0 0 <1	Aluminum	ppm	ASTM D5185m	>25	0	0	0
Tin ppm ASTM D5185m >15 0 0 <1 Antimony ppm ASTM D5185m Vanadium ppm ASTM D5185m 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 ADDITIVES method limit/base current history1 history Boron ppm ASTM D5185m 0 <1 0 Barium ppm ASTM D5185m 6 0 <1 0 Barium ppm ASTM D5185m 0 0 0 0 Molybdenum ppm ASTM D5185m 0 0 0 0 Magnesium ppm ASTM D5185m 0 0 0 0 Calcium ppm ASTM D5185m 0 0 0 0 Phosphorus ppm ASTM D5185m 22 14 36 Zinc ppm ASTM D5185m <td>Lead</td> <td>ppm</td> <td>ASTM D5185m</td> <td>>25</td> <th>0</th> <td>0</td> <td>0</td>	Lead	ppm	ASTM D5185m	>25	0	0	0
Antimony ppm ASTM D5185m	Copper	ppm	ASTM D5185m	>50	0	<1	<1
Vanadium ppm ASTM D5185m 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 ADDITIVES method limit/base current history1 history1 Boron ppm ASTM D5185m 0 <1 0 Barium ppm ASTM D5185m 6 0 <1 0 Barium ppm ASTM D5185m 0 0 0 0 Molybdenum ppm ASTM D5185m 0 0 0 0 Magnesium ppm ASTM D5185m 0 0 0 0 Calcium ppm ASTM D5185m 0 0 0 0 Phosphorus ppm ASTM D5185m 22 14 36 Zinc ppm ASTM D5185m 0 0 0 0 Sulfur ppm ASTM D5185m 54 24 12 CONTAMINANTS method <t< td=""><td>Tin</td><td>ppm</td><td>ASTM D5185m</td><td>>15</td><th>0</th><td>0</td><td><1</td></t<>	Tin	ppm	ASTM D5185m	>15	0	0	<1
Cadmium ppm ASTM D5185m 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 <1	Antimony	ppm	ASTM D5185m				
ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 <1	Vanadium	ppm	ASTM D5185m		0	0	0
Boron ppm ASTM D5185m 0 <1 0 Barium ppm ASTM D5185m 6 0 <1 Molybdenum ppm ASTM D5185m 0 0 0 Manganese ppm ASTM D5185m 0 0 0 Magnesium ppm ASTM D5185m 0 0 0 Calcium ppm ASTM D5185m 0 0 0 Phosphorus ppm ASTM D5185m 22 14 36 Zinc ppm ASTM D5185m 0 0 0 Sulfur ppm ASTM D5185m 54 24 12 CONTAMINANTS method limit/base current history1 history Silicon ppm ASTM D5185m >25 3 8 9 Sodium ppm ASTM D5185m >20 0 0 0 FLUID DEGRADATION method limit/base current history1	Cadmium	ppm	ASTM D5185m		0	0	0
Barium ppm ASTM D5185m 6 0 <1	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 0 0 Calcium ppm ASTM D5185m 0 0 0 Phosphorus ppm ASTM D5185m 22 14 36 Zinc ppm ASTM D5185m 0 0 0 Sulfur ppm ASTM D5185m 54 24 12 CONTAMINANTS method limit/base current history1 history. Silicon ppm ASTM D5185m >25 3 8 9 Sodium ppm ASTM D5185m >20 0 0 0 FLUID DEGRADATION method limit/base current history1 history1	Boron	ppm	ASTM D5185m		0	<1	0
Manganese ppm ASTM D5185m 0 0 0 Magnesium ppm ASTM D5185m 0 0 0 Calcium ppm ASTM D5185m 0 0 0 Phosphorus ppm ASTM D5185m 22 14 36 Zinc ppm ASTM D5185m 0 0 0 Sulfur ppm ASTM D5185m 54 24 12 CONTAMINANTS method limit/base current history1 history Silicon ppm ASTM D5185m >25 3 8 9 Sodium ppm ASTM D5185m >20 0 0 0 FLUID DEGRADATION method limit/base current history1 history1	Barium	ppm	ASTM D5185m		6	0	<1
Magnesium ppm ASTM D5185m 0 0 0 Calcium ppm ASTM D5185m 0 0 0 Phosphorus ppm ASTM D5185m 22 14 36 Zinc ppm ASTM D5185m 0 0 0 Sulfur ppm ASTM D5185m 54 24 12 CONTAMINANTS method limit/base current history1 history Silicon ppm ASTM D5185m >25 3 8 9 Sodium ppm ASTM D5185m <1 <1 2 Potassium ppm ASTM D5185m >20 0 0 0	Molybdenum	ppm	ASTM D5185m		0	0	0
Calcium ppm ASTM D5185m 0 0 0 Phosphorus ppm ASTM D5185m 22 14 36 Zinc ppm ASTM D5185m 0 0 0 Sulfur ppm ASTM D5185m 54 24 12 CONTAMINANTS method limit/base current history1 history Silicon ppm ASTM D5185m >25 3 8 9 Sodium ppm ASTM D5185m <1	Manganese	ppm	ASTM D5185m		0	0	0
Phosphorus ppm ASTM D5185m 22 14 36 Zinc ppm ASTM D5185m 0 0 0 Sulfur ppm ASTM D5185m 54 24 12 CONTAMINANTS method limit/base current history1 history Silicon ppm ASTM D5185m >25 3 8 9 Sodium ppm ASTM D5185m <1	Magnesium	ppm	ASTM D5185m		0	0	0
Zinc ppm ASTM D5185m 0 0 0 0 Sulfur ppm ASTM D5185m 54 24 12 CONTAMINANTS method limit/base current history1 history Silicon ppm ASTM D5185m >25 3 8 9 Sodium ppm ASTM D5185m <1 <1 2 Potassium ppm ASTM D5185m >20 0 0 0 FLUID DEGRADATION method limit/base current history1 history	Calcium	ppm	ASTM D5185m		0	0	0
Sulfur ppm ASTM D5185m 54 24 12 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 3 8 9 Sodium ppm ASTM D5185m <1	Phosphorus	ppm	ASTM D5185m		22	14	36
CONTAMINANTS method limit/base current history1 history. Silicon ppm ASTM D5185m >25 3 8 9 Sodium ppm ASTM D5185m <1	Zinc	ppm	ASTM D5185m		0	0	0
Silicon ppm ASTM D5185m >25 3 8 9 Sodium ppm ASTM D5185m <1 <1 2 Potassium ppm ASTM D5185m >20 0 0 0 FLUID DEGRADATION method limit/base current history1 history	Sulfur	ppm	ASTM D5185m		54	24	12
Sodium ppm ASTM D5185m <1 <1 2 Potassium ppm ASTM D5185m >20 0 0 0 FLUID DEGRADATION method limit/base current history1 history	CONTAMINANTS	5	method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m >20 0 0 0 FLUID DEGRADATION method limit/base current history1 history	Silicon	ppm	ASTM D5185m	>25	3	8	9
FLUID DEGRADATION method limit/base current history1 history	Sodium	ppm	ASTM D5185m		<1	<1	2
	Potassium	ppm	ASTM D5185m	>20	0	0	0
Acid Number (AN) mg KOH/g ASTM D8045 0.42 0.48 0.28	FLUID DEGRADA	NOITA	method	limit/base	current	history1	history2
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.42	0.48	0.28

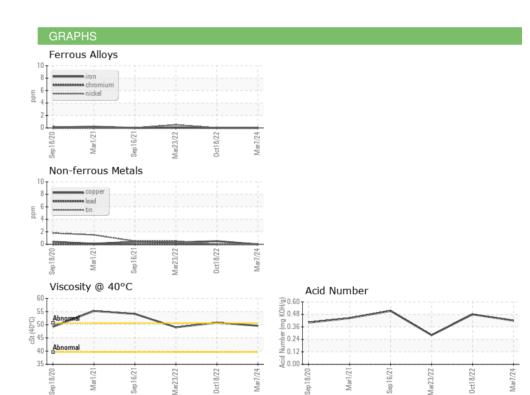


Sep18/20

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	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		49.6	50.8	49.0
SAMPLE IMAGES	3	method	limit/base	current	history1	history2
Color						







Laboratory Sample No.

: UCH06137552 Lab Number : 06137552 Unique Number : 10957017

Bottom

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

: 03 Apr 2024 : 04 Apr 2024 Diagnosed : 05 Apr 2024 - Sean Felton

AIR TECHNOLOGIES INC (CLE)

6500 DAVIS INDUSTRIAL PARKWAY CLEVELAND, OH US 44139

Test Package : IND 2 Certificate 12367

Contact: DERRICK PAES DPAES@AIRCOMPRESSORS.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.

T: (440)349-3900 F: (440)349-0608

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) Report Id: UCAIRCLE [WUSCAR] 06137552 (Generated: 04/05/2024 18:09:40) Rev: 1

Contact/Location: DERRICK PAES - UCAIRCLE