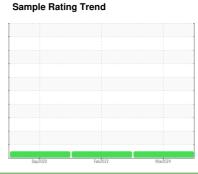


OIL ANALYSIS REPORT

Acs-46-5 ATLAS COPCO API480482 - LYNCH METALS CORP

Component

Compressor





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 UCH06125792 UCH05492650 UCH050715			Sep.2020 Feb.2022 Mar2024					
Sample Date	SAMPLE INFORI	MATION	method	limit/base	current	history1	history2	
Machine Age hrs Client Info 15377 12779 10918 Oil Age hrs Client Info 730 757 1159 Oil Changed Client Info N/A Not Changed Changed Sample Status Client Info N/A Not Changed NorMAL 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 0 Chromium ppm ASTM D5185m >50 0 0 0 Nickel ppm ASTM D5185m >50 0 0 0 Silver ppm ASTM D5185m >15 0 <1 0 Aluminum ppm ASTM D5185m >65 0 <1 0 Lead pp	Sample Number		Client Info		UCH06125792	UCH05492650	UCH05071531	
Oil Age hrs Client Info 730 757 1159 Oil Changed Client Info N/A Not Changed Changed Sample Status NORMAL NORMAL NORMAL NORMAL CONTAMINATION method limit/base current history1 history1 WEAR METALS method limit/base current history1 history1 Iron ppm ASTM D5185m >50 0 0 0 Chromium ppm ASTM D5185m >50 0 0 0 Nickel ppm ASTM D5185m >50 0 0 0 Silver ppm ASTM D5185m 0 0 0 0 Lead ppm ASTM D5185m >15 0 <1 0 Copper ppm ASTM D5185m >65 0 <1 0 Tin ppm ASTM D5185m >10 0 0 0 Cadmium	Sample Date		Client Info		21 Mar 2024	09 Feb 2022	01 Sep 2020	
Oil Changed Sample Status Client Info N/A Not Changd NORMAL Changed NORMAL 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 0 Chromium ppm ASTM D5185m >50 0 0 0 Nickel ppm ASTM D5185m 0 0 0 0 Silver ppm ASTM D5185m 0 0 0 0 Lead ppm ASTM D5185m >15 0 <1 0 Copper ppm ASTM D5185m >10 0 0 0 Tin ppm ASTM D5185m >10 0 0 0 Antimony ppm ASTM D5185m 0 0 0 0 <	Machine Age	hrs	Client Info		15377	12779	10918	
Sample Status	Oil Age	hrs	Client Info		730	757	1159	
CONTAMINATION method limit/base current history1 history2 Water WC Method >0.1 NEG NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >50 0 0 0 Chromium ppm ASTM D5185m >50 0 0 0 Nickel ppm ASTM D5185m 0 0 0 0 Silver ppm ASTM D5185m 0 0 0 0 Aluminum ppm ASTM D5185m >15 0 <1	Oil Changed		Client Info		N/A	Not Changd	Changed	
Water WC Method >0.1 NEG NEG NEG WEAR METALS method limit/base current history1 history1 Iron ppm ASTM D5185m >50 0 0 0 Chromium ppm ASTM D5185m >5 0 0 0 Nickel ppm ASTM D5185m 0 0 0 0 Silver ppm ASTM D5185m 0 0 0 0 Aluminum ppm ASTM D5185m >65 0 0 0 Lead ppm ASTM D5185m >65 0 0 0 Copper ppm ASTM D5185m >65 0 <1	Sample Status				NORMAL	NORMAL	NORMAL	
WEAR METALS method limit/base current history1 history. Iron ppm ASTM D5185m >50 0 0 0 Chromium ppm ASTM D5185m >5 0 0 0 Nickel ppm ASTM D5185m 0 0 0 0 Silver ppm ASTM D5185m 0 0 0 0 Aluminum ppm ASTM D5185m 0 0 0 0 Lead ppm ASTM D5185m >15 0 -1 0 Lead ppm ASTM D5185m >655 0 0 0 0 Copper ppm ASTM D5185m >10 0 0 0 0 Tin ppm ASTM D5185m >10 0 0 0 0 Vanadium ppm ASTM D5185m 0 0 0 0 0 Cadmium ppm ASTM D5185m	CONTAMINATIO	N	method	limit/base	current	history1	history2	
Iron	Water		WC Method	>0.1	NEG	NEG	NEG	
Chromium ppm ASTM D5185m >5 0 0 0 Nickel ppm ASTM D5185m 0 0 0 0 Titanium ppm ASTM D5185m 0 0 0 0 Silver ppm ASTM D5185m 0 0 0 -1 0 Aluminum ppm ASTM D5185m >15 0 -1 0 0 -1 0	WEAR METALS		method	limit/base	current	history1	history2	
Nickel ppm ASTM D5185m 0 0 0 Titanium ppm ASTM D5185m 0 0 0 Silver ppm ASTM D5185m 0 0 0 Aluminum ppm ASTM D5185m >15 0 <1	Iron	ppm	ASTM D5185m	>50	0	0	0	
Titanium ppm ASTM D5185m 0 0 0 Silver ppm ASTM D5185m 0 0 <1	Chromium	ppm	ASTM D5185m	>5	0	0	0	
Silver ppm ASTM D5185m 0 0 <1 Aluminum ppm ASTM D5185m >15 0 <1 0 Lead ppm ASTM D5185m >65 0 0 0 0 Copper ppm ASTM D5185m >65 0 <1 0 0 Tin ppm ASTM D5185m >10 0 0 0 0 Antimony ppm ASTM D5185m 0 0 Vanadium ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 ADDITIVES method limit/base current history1 history1 Boron ppm ASTM D5185m 0 0 0 <1 Barium ppm ASTM D5185m 0 0 0 <1 Barium ppm ASTM D5185m 0 0	Nickel	ppm	ASTM D5185m		0	0	0	
Aluminum ppm ASTM D5185m >15 0 <1 0 Lead ppm ASTM D5185m >65 0 0 0 Copper ppm ASTM D5185m >65 0 <1	Titanium	ppm	ASTM D5185m		0	0	0	
Lead	Silver	ppm	ASTM D5185m		0	0	<1	
Copper ppm ASTM D5185m >65 0 <1 0 Tin ppm ASTM D5185m >10 0 0 0 Antimony ppm ASTM D5185m 0 Vanadium ppm ASTM D5185m 0 0 0 Cadmium 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 0 0 <1	Aluminum	ppm	ASTM D5185m	>15	0	<1	0	
Tin ppm ASTM D5185m >10 0 0 0 0 Antimony ppm ASTM D5185m 0 0 0 0 Cadmium 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 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 0 0 0 0 0 ADDITIVES mothod limit/base current history1 history2 Boron ppm ASTM D5185m 0 0 0 0 0 0 Malagarese ppm ASTM D5185m 0 0 0 0 0 0 Manganese ppm ASTM D5185m 0 0 0 0 0 0 Magnesium ppm ASTM D5185m 0 0 0 0 0 0 Calcium ppm ASTM D5185m 0 0 0 0 0 0 Phosphorus ppm ASTM D5185m 0 0 0 0 0 0 Phosphorus ppm ASTM D5185m 0 0 0 29 15 Sulfur ppm ASTM D5185m 1283 2317 538 92 CONTAMINANTS method limit/base current history1 history3 Silicon ppm ASTM D5185m >35 0 <1 0 Sodium ppm ASTM D5185m >20 0 <1 0 Potassium ppm ASTM D5185m >20 0 <1 0	Lead	ppm	ASTM D5185m	>65	0	0	0	
Antimony ppm ASTM D5185m 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 1.5 0 0 <1	Copper	ppm	ASTM D5185m	>65	0	<1	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 1.5 0 0 <1 Barium ppm ASTM D5185m 0 0 0 4 Molybdenum ppm ASTM D5185m 0 0 0 0 Manganese ppm ASTM D5185m 0.3 0 0 0 Magnesium ppm ASTM D5185m 0 0 0 0 Calcium ppm ASTM D5185m 0 0 0 0 Phosphorus ppm ASTM D5185m 0 0 29 15 Sulfur ppm ASTM D5185m 1283 2317 538 92 CONTAMINANTS method limit/base current history1 history2 <t< td=""><td>Tin</td><td>ppm</td><td>ASTM D5185m</td><td>>10</td><th>0</th><td>0</td><td>0</td></t<>	Tin	ppm	ASTM D5185m	>10	0	0	0	
Cadmium ppm ASTM D5185m 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 1.5 0 0 <1	Antimony	ppm	ASTM D5185m				0	
ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 1.5 0 0 <1	Vanadium	ppm	ASTM D5185m		0	0	0	
Boron ppm ASTM D5185m 1.5 0 0 <1 Barium ppm ASTM D5185m 0 0 0 4 Molybdenum ppm ASTM D5185m 0 0 0 0 Manganese ppm ASTM D5185m 0.3 0 0 0 Magnesium ppm ASTM D5185m 0 0 0 0 Calcium ppm ASTM D5185m 0 0 0 0 Phosphorus ppm ASTM D5185m 0 0 251 42 Zinc ppm ASTM D5185m 0 0 29 15 Sulfur ppm ASTM D5185m 231 2317 538 92 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >35 0 <1 0 Sodium ppm ASTM D5185m >20 0 <1	Cadmium	ppm	ASTM D5185m		0	0	0	
Barium ppm ASTM D5185m 0 0 0 4 Molybdenum ppm ASTM D5185m 0 0 0 0 Manganese ppm ASTM D5185m 0.3 0 0 0 Magnesium ppm ASTM D5185m 0 0 0 0 Calcium ppm ASTM D5185m 0 0 0 0 Phosphorus ppm ASTM D5185m 406 236 251 42 Zinc ppm ASTM D5185m 0 0 29 15 Sulfur ppm ASTM D5185m 1283 2317 538 92 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >35 0 <1 0 Sodium ppm ASTM D5185m >20 0 <1 0	ADDITIVES		method	limit/base	current	history1	history2	
Molybdenum ppm ASTM D5185m 0 0 0 0 Manganese ppm ASTM D5185m 0.3 0 0 0 Magnesium ppm ASTM D5185m 0 0 0 0 Calcium ppm ASTM D5185m 0 0 0 0 Phosphorus ppm ASTM D5185m 406 236 251 42 Zinc ppm ASTM D5185m 0 0 29 15 Sulfur ppm ASTM D5185m 1283 2317 538 92 CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185m >35 0 <1 0 Sodium ppm ASTM D5185m >20 0 <1 0 Potassium ppm ASTM D5185m >20 0 <1 0	Boron	ppm	ASTM D5185m	1.5	0	0	<1	
Manganese ppm ASTM D5185m 0.3 0 0 0 Magnesium ppm ASTM D5185m 0 0 0 0 Calcium ppm ASTM D5185m 0 0 0 0 Phosphorus ppm ASTM D5185m 406 236 251 42 Zinc ppm ASTM D5185m 0 0 29 15 Sulfur ppm ASTM D5185m 1283 2317 538 92 CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185m >35 0 <1 0 Sodium ppm ASTM D5185m >20 0 <1 0 Potassium ppm ASTM D5185m >20 0 <1 0	Barium	ppm	ASTM D5185m	0	0	0	4	
Magnesium ppm ASTM D5185m 0 0 0 0 0 Calcium ppm ASTM D5185m 0 0 0 0 0 Phosphorus ppm ASTM D5185m 406 236 251 42 Zinc ppm ASTM D5185m 0 0 29 15 Sulfur ppm ASTM D5185m 1283 2317 538 92 CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185m >35 0 <1 0 Sodium ppm ASTM D5185m <1 0 0 Potassium ppm ASTM D5185m >20 0 <1 0	Molybdenum	ppm	ASTM D5185m	0	0	0	0	
Calcium ppm ASTM D5185m 0 0 0 0 Phosphorus ppm ASTM D5185m 406 236 251 42 Zinc ppm ASTM D5185m 0 0 29 15 Sulfur ppm ASTM D5185m 1283 2317 538 92 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >35 0 <1	Manganese	ppm	ASTM D5185m	0.3	0	0	0	
Phosphorus ppm ASTM D5185m 406 236 251 42 Zinc ppm ASTM D5185m 0 0 29 15 Sulfur ppm ASTM D5185m 1283 2317 538 92 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >35 0 <1	Magnesium	ppm	ASTM D5185m	0	0	0	0	
Zinc ppm ASTM D5185m 0 0 29 15 Sulfur ppm ASTM D5185m 1283 2317 538 92 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >35 0 <1	Calcium	ppm	ASTM D5185m	0	0	0	0	
Sulfur ppm ASTM D5185m 1283 2317 538 92 CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185m >35 0 <1	Phosphorus	ppm	ASTM D5185m	406	236	251	42	
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >35 0 <1	Zinc	ppm	ASTM D5185m	0	0	29	15	
Silicon ppm ASTM D5185m >35 0 <1	Sulfur	ppm	ASTM D5185m	1283	2317	538	92	
Sodium ppm ASTM D5185m <1	CONTAMINANTS	S	method	limit/base	current	history1	history2	
Potassium ppm ASTM D5185m >20 0 <1 0	Silicon	ppm	ASTM D5185m	>35	0	<1	0	
т	Sodium	ppm	ASTM D5185m		<1	0	0	
FLUID DEGRADATION method limit/base current history1 history.	Potassium	ppm	ASTM D5185m	>20	0	<1	0	
	FLUID DEGRAD	ATION	method	limit/base	current	history1	history2	

0.10

Acid Number (AN)

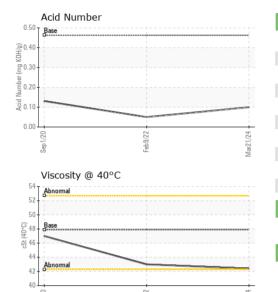
mg KOH/g ASTM D8045 0.463

0.05

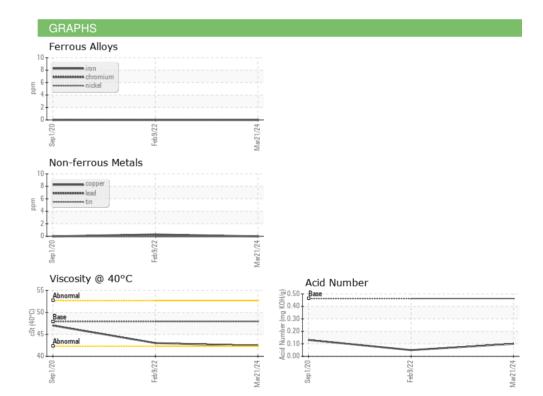
0.131



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 PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	47.9	42.4	43.0	47.0
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						







Certificate L2367

Laboratory Sample No.

Test Package : IND 2

: UCH06125792 Lab Number : 06125792 Unique Number : 10939943

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 21 Mar 2024

Tested : 25 Mar 2024 Diagnosed : 25 Mar 2024 - Angela Borella

AIRMATIC COMPRESSOR SYSTEMS 700 WASHINGTON AVE

CARLSTADT, NJ US 07072

Contact: ELVIN DIAZ

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Bottom

ediaz@air matic compressor.com; can a stasio@wear check us a.comT: (800)864-7621

* - 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: (201)342-6241 Contact/Location: ELVIN DIAZ - UCAIRCAR