

OIL ANALYSIS REPORT

Sample Rating Trend

WEAR

Area ALTAIR 30 [418163] Machine Id ATLAS COPCO UTY758438 - ENGINEERED DEVICES Component

Compressor

DIAGNOSIS

A Recommendation

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

🔺 Wear

The iron level is abnormal. All other component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

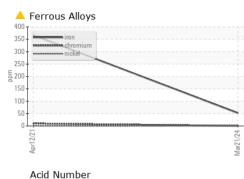
Fluid Condition

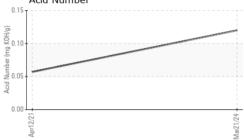
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

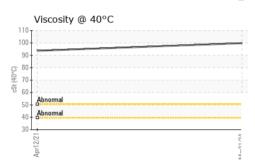
SAMPLE INFORMATION method imit/base current history1 history2 Sample Number Client Info 21 Mar 2024 12 Apr 2021 Sample Date IC Client Info 0 0 Oil Age hrs Client Info 0 0 Oil Age hrs Client Info N/A N/A Oil Age hrs Client Info N/A N/A Sample Status Imit/base current Nistory1 history1 history2 Water WC Method >0.1 NEG NEG WEAR METALS method imit/base current history1 history2 Iron ppm ASTM 05185m S5 0 Nickel ppm ASTM 05185m S5 0 Aluminum ppm ASTM 05185m S15 2				Apr2021	Mar2024		
Sample Date Client Info 21 Mar 2024 12 Apr 2021 Machine Age hrs Client Info 0 0 Oil Age hrs Client Info 0 0 Oil Changed Client Info N/A N/A N/A Sample Status method limit/base current history1 history2 Water WC Method >0.1 NEG NEG Vetar WC Method >0.1 NEG Nickel ppm ASTM D5185m >50 - 1 Nickel ppm ASTM D5185m >50 1 Aluminum ppm ASTM D5185m >15 2 26 Lead ppm ASTM D5185m >10 <1 Autominum ppm ASTM D5185m >10 <1 Autominum </th <th>SAMPLE INFORM</th> <th>ATION</th> <th>method</th> <th>limit/base</th> <th>current</th> <th>history1</th> <th>history2</th>	SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Machine Age hrs Client Info 0 0 Oil Age hrs Client Info N/A N/A N/A Sample Status I Imit/base current history1 history2 Water WC Method >0.1 NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >50 \$22 367 MeARMETALS method limit/base current history1 history2 Iron ppm ASTM D5185m >50 \$10 -1 Nickel ppm ASTM D5185m >55 \$0 \$11 Silver ppm ASTM D5185m >55 \$2 \$26 Lead ppm ASTM D5185m >65 \$3 \$3 Aluminum ppm ASTM D5185m 0 <11 <	Sample Number		Client Info		UCH06125758	UCH05228144	
Oil Age hrs Client Info 0 0 Oil Changed Client Info N/A N/A N/A Sample Status Client Info N/A ABNORMAL SEVERE CONTAMINATION method limit/base current history1 history2 Water WC Method >0.1 NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM 05185m >50 4 52 4 367 Nickel ppm ASTM 05185m >50 4 10 10 Silver ppm ASTM 05185m 0 <11	Sample Date		Client Info		21 Mar 2024	12 Apr 2021	
Oil Changed Sample Status Client Info N/A N/A Sample Status Imit/base current history1 history2 Water WC Method >0.1 NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM 05185m >50 \$52 \$367 Nickel ppm ASTM 05185m >5 0 \$10 Silver ppm ASTM 05185m 0 <11	Machine Age	hrs	Client Info		0	0	
Sample Status ABNORMAL SEVERE CONTAMINATION method limit/base current history1 history2 Water WC Method >0.1 NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >50 \$52 \$67 Nickel ppm ASTM D5185m 0 <10	Oil Age	hrs	Client Info		0	0	
CONTAMINATION method limit/base current history1 history2 Water WC Method >0.1 NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >50 ▲ 52 ▲ 367 Nickel ppm ASTM D5185m >50 ▲ 10 Nickel ppm ASTM D5185m 0 ▲ 10 Aluminum ppm ASTM D5185m 0 <1	Oil Changed		Client Info		N/A	N/A	
Water WC Method >0.1 NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185n >50 \$ 52 \$ 367 Chromium ppm ASTM D5185n >50 \$ 52 \$ 367 Nickel ppm ASTM D5185n >50 0 10 Nickel ppm ASTM D5185n >50 0 1 Nickel ppm ASTM D5185n >15 2 26 Aluminum ppm ASTM D5185n >65 0 2 Aluminum ppm ASTM D5185n >10 <1 0 Astm D5185n >665 3 3 Antimony ppm ASTM D5185n 0 <1 Astm D5185n 0 <1 Adadium p	Sample Status				ABNORMAL	SEVERE	
WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >50 ▲ 52 ▲ 367 Chromium ppm ASTM D5185m >5 0 ▲ 10 Nickel ppm ASTM D5185m 0 <11 Silver ppm ASTM D5185m 0 <11 Aluminum ppm ASTM D5185m >15 2 266 Lead ppm ASTM D5185m >15 2 Copper ppm ASTM D5185m >10 <1 0 Antimony ppm ASTM D5185m 0 <1 Cadmium ppm ASTM D5185m 0 <1 Cadmium ppm ASTM D5185m 0 <1 Boron ppm ASTM D5185m 0 <1 <td< th=""><th>CONTAMINATION</th><th></th><th>method</th><th>limit/base</th><th>current</th><th>history1</th><th>history2</th></td<>	CONTAMINATION		method	limit/base	current	history1	history2
Iron ppm ASTM D5185m >50 ▲ 52 ▲ 367 Chromium ppm ASTM D5185m >5 0 ▲ 10 Nickel ppm ASTM D5185m 0 -11 Titanium ppm ASTM D5185m 0 -11 Aluminum ppm ASTM D5185m 0 -11 Aluminum ppm ASTM D5185m >15 2 -26 Lead ppm ASTM D5185m >65 3 3 Copper ppm ASTM D5185m >10 -1 0 Antimony ppm ASTM D5185m 0 -1 Cadmium ppm ASTM D5185m 0 -11 Cadmium ppm ASTM D5185m 0 -11 Cadmium ppm ASTM D5185m 0 <11 Magnaese ppm	Water		WC Method	>0.1	NEG	NEG	
Chromium ppm ASTM D5185m >5 0 ▲ 10 Nickel ppm ASTM D5185m 0 <1 Titanium ppm ASTM D5185m 0 1 Silver ppm ASTM D5185m 0 <1 Aluminum ppm ASTM D5185m >15 2 26 Lead ppm ASTM D5185m >65 3 3 Copper ppm ASTM D5185m >65 3 3 Antimony ppm ASTM D5185m >10 <1 0 Antimony ppm ASTM D5185m 0 <1 Cadmium ppm ASTM D5185m 0 <1 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 <1	WEAR METALS		method	limit/base	current	history1	history2
Nickel ppm ASTM D5185m 0 <1 Titanium ppm ASTM D5185m 0 1 Silver ppm ASTM D5185m 0 <1	Iron	ppm	ASTM D5185m	>50	<u> </u>	4 367	
Titanium ppm ASTM D5185m 0 1 Silver ppm ASTM D5185m 0 <1	Chromium	ppm	ASTM D5185m	>5	0	1 0	
Silver ppm ASTM D5185m 0 <1 Aluminum ppm ASTM D5185m<>15 2 26 Lead ppm ASTM D5185m<>65 0 2 Copper ppm ASTM D5185m<>65 3 3 Tin ppm ASTM D5185m<>65 3 3 Antimony ppm ASTM D5185m<>10 <1	Nickel	ppm	ASTM D5185m		0	<1	
Aluminum ppm ASTM D5185m >15 2 26 Lead ppm ASTM D5185m >65 0 2 Copper ppm ASTM D5185m >65 3 3 Tin ppm ASTM D5185m >10 <1	Titanium	ppm	ASTM D5185m		0	1	
Lead ppm ASTM D5185m >65 0 2 Copper ppm ASTM D5185m >65 3 3 Tin ppm ASTM D5185m >10 <1	Silver	ppm	ASTM D5185m		0	<1	
Copper ppm ASTM D5185m >65 3 3 Tin ppm ASTM D5185m >10 <1	Aluminum	ppm	ASTM D5185m	>15	2	26	
Tin ppm ASTM D5185m >10 <1 0 Antimony ppm ASTM D5185m 0 <1	Lead	ppm	ASTM D5185m	>65	0	2	
AntimonyppmASTM D5185m<1VanadiumppmASTM D5185m0<1	Copper	ppm	ASTM D5185m	>65	3	3	
VanadiumppmASTM D5185m0<1CadmiumppmASTM D5185m00ADDITIVESmethodlimit/basecurrenthistory1history2BoronppmASTM D5185m0<1	Tin	ppm	ASTM D5185m	>10	<1	0	
CadmiumppmASTM D5185m00ADDITIVESmethodlimit/basecurrenthistory1history2BoronppmASTM D5185m0<1	Antimony	ppm	ASTM D5185m			<1	
ADDITIVESmethodlimit/basecurrenthistory1history2BoronppmASTM D5185m0<1	Vanadium	ppm	ASTM D5185m		0	<1	
BoronppmASTM D5185m0<1	Cadmium	ppm	ASTM D5185m		0	0	
BariumppmASTM D5185m0<1	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5185m 0 Manganese ppm ASTM D5185m 1 4 Magnesium ppm ASTM D5185m 0 43 Calcium ppm ASTM D5185m <1	Boron	ppm	ASTM D5185m		0	<1	
Manganese ppm ASTM D5185m 1 4 Magnesium ppm ASTM D5185m 0 43 Calcium ppm ASTM D5185m 0 43 Calcium ppm ASTM D5185m <1 266 Phosphorus ppm ASTM D5185m 60 120 Zinc ppm ASTM D5185m 0 89 Sulfur ppm ASTM D5185m 528 796 Sulfur ppm ASTM D5185m 528 796 Solicon ppm ASTM D5185m >35 3 65 Sodium ppm ASTM D5185m >20 0 6 Potassium ppm ASTM D5185m >20 0 6 FLUID DEGRADATION method limit/base current history1 history2	Barium	ppm	ASTM D5185m		0	<1	
Magnesium ppm ASTM D5185m 0 43 Calcium ppm ASTM D5185m <1 266 Phosphorus ppm ASTM D5185m 60 120 Zinc ppm ASTM D5185m 0 89 Sulfur ppm ASTM D5185m 528 796 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >35 3 65 Sodium ppm ASTM D5185m >20 0 6 Potassium ppm ASTM D5185m >20 0 6 FLUID DEGRADATION method limit/base current history1 history2	Molybdenum	ppm	ASTM D5185m		0	0	
Calcium ppm ASTM D5185m <1 266 Phosphorus ppm ASTM D5185m 60 120 Zinc ppm ASTM D5185m 0 89 Sulfur ppm ASTM D5185m 528 796 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >35 3 65 Sodium ppm ASTM D5185m >20 0 6 FLUID DEGRADATION method limit/base current history1 history2	Manganese	ppm	ASTM D5185m		1	4	
PhosphorusppmASTM D5185m60120ZincppmASTM D5185m089SulfurppmASTM D5185m528796CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>353▲ 65SodiumppmASTM D5185m>2006PotassiumppmASTM D5185m>2006FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2	Magnesium	ppm	ASTM D5185m		0	43	
ZincppmASTM D5185m089SulfurppmASTM D5185m528796CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>353<	Calcium	ppm	ASTM D5185m		<1	266	
SulfurppmASTM D5185m528796CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>353▲ 65SodiumppmASTM D5185m<1	Phosphorus	ppm	ASTM D5185m		60	120	
CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m<>35365SodiumppmASTM D5185m<1	Zinc	ppm	ASTM D5185m		0	89	
Silicon ppm ASTM D5185m >35 3 ▲ 65 Sodium ppm ASTM D5185m <1	Sulfur	ppm	ASTM D5185m		528	796	
SodiumppmASTM D5185m<1	CONTAMINANTS		method	limit/base	current	history1	history2
SodiumppmASTM D5185m<120PotassiumppmASTM D5185m>2006FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2	Silicon	ppm	ASTM D5185m	>35	3	6 5	
PotassiumppmASTM D5185m>2006FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2					<1		
			ASTM D5185m	>20			
Acid Number (AN) mg KOH/g ASTM D8045 0.12 0.057	FLUID DEGRADAT	ΓΙΟΝ	method	limit/base	current	history1	history2
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.12	0.057	



OIL ANALYSIS REPORT







	VISUAL		method	limit/base	current	history1	history2
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
	Precipitate	scalar	*Visual	NONE	NONE	NONE	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	LIGHT	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
1/24	Appearance	scalar	*Visual	NORML	NORML	NORML	
Mar21/24	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	
	Free Water	scalar	*Visual		NEG	NEG	
and the second se	FLUID PROPERT	IES	method	limit/base	current	history1	history2
	Visc @ 40°C	cSt	ASTM D445		99.8	93.7	
	SAMPLE IMAGES		method	limit/base	current	history1	history2
Mar21/24	Color				A.	J	no image
	Bottom						no image
2	300 - iron iron iron iron iron						
(1−14	Non-ferrous Metals	5		Mar21/24			
∩_11	Non-ferrous Metals			Mar21/24	Acid Number		
Laboratory Sample No. Lab Number	Non-ferrous Metals		on Ave., Cary ived : 21	Mar21/24 90.0 90	Apri 2/21		SOR SYSTEM HINGTON AV ARLSTADT, N

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