

# **OIL ANALYSIS REPORT**

Sample Rating Trend



#### Area S-460 Machine to KAESER 1152 - NEXTERRA WINE CO Component Compressor

001110103301

#### DIAGNOSIS

### Recommendation

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

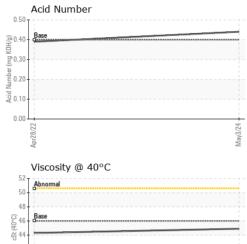
SAMPLE INFORM	<b>IATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		UDI0000250	UCH05537483	
Sample Date		Client Info		03 May 2024	28 Apr 2022	
Machine Age	hrs	Client Info		9214	5356	
Oil Age	hrs	Client Info		2000	1090	
Oil Changed		Client Info		N/A	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINATION	N	method	limit/base	current	history1	history2
Water		WC Method	>0.05	NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<1	<1	
Chromium	ppm	ASTM D5185m	>10	0	0	
Nickel	ppm	ASTM D5185m	>3	0	0	
Titanium	ppm	ASTM D5185m	>3	0	0	
Silver	ppm	ASTM D5185m	>2	0	<1	
Aluminum	ppm	ASTM D5185m	>10	0	<1	
Lead	ppm	ASTM D5185m	>10	0	0	
Copper	ppm	ASTM D5185m	>50	6	4	
Tin	ppm	ASTM D5185m	>10	0	0	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	
Barium	ppm	ASTM D5185m	90	2	0	
Molybdenum	ppm	ASTM D5185m		0	0	
Manganese	ppm	ASTM D5185m		0	0	
Magnesium	ppm	ASTM D5185m	90	0	12	
Calcium	ppm	ASTM D5185m	2	0	0	
Phosphorus	ppm	ASTM D5185m		0	0	
Zinc	ppm	ASTM D5185m		9	10	
Sulfur	ppm	ASTM D5185m		17551	15959	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1	0	
Sodium	ppm	ASTM D5185m		1	3	
Potassium	ppm	ASTM D5185m	>20	<1	0	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	0.44	0.39	



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Abnormal 40 38. Apr28/22

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White Metal scalar *Visual NONE NONE NONE NONE Precipitate scalar *Visual NONE NONE NONE NONE Precipitate scalar *Visual NONE NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE Appearance scalar *Visual NONE NONE NONE NONE Appearance scalar *Visual NONE NONE NONE Appearance scalar *Visual NORML NORML NORML Appearance scalar *Visual NORML NORML NORML Emulsified Water scalar *Visual NORML NORML NORML NORML Emulsified Water scalar *Visual NORML NORML NORML NORML TEUID PROPERTIES method limit/base current history1 history2 Visc @ 40°C cSt ASTM D445 46 44.9 44.3 SAMPLE IMAGES method limit/base current history1 history2 Visc @ 40°C cSt ASTM D445 46 44.9 44.3 SAMPLE IMAGES method limit/base current history1 history2 Nor-ferrous Metals 0 0 0 0 0 0 0 0 0 0 0 0 0		VISUAL		method	limit/base	current	history1	history2
Precipitate scalar 'Visual NONE NONE NONE Sitt scalar 'Visual NONE NONE NONE Debris scalar 'Visual NONE NONE LIGHT Appearance scalar 'Visual NORML NORML NORML Appearance scalar 'Visual NORML NORML NORML Emulsified Water scalar 'Visual NORML NORML NORML NORML Emulsified Water scalar 'Visual NORML NORML NORML NORML Free Water scalar 'Visual NORML NORML NORML NORML Color c cSt ASTM D445 46 44.9 44.3 SAMPLE IMAGES method limit/base current history1 history2 Visc @ 40°C cSt ASTM D445 46 44.9 44.3 SAMPLE IMAGES method limit/base current history1 history2 No image Color no image GRAPHS Ferrous Alloys 		White Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate scalar *Visual NONE NONE NONE Sitt scalar *Visual NONE NONE NONE Sand/Diri scalar *Visual NONE NONE LIGHT Appearance scalar *Visual NORML NORML NORML NORML Emulsified Water scalar *Visual NORML NORML NORML NORML Erree Water scalar *Visual NORML NORML NORML NORML Free Water scalar *Visual NORML NORML NORML NORML Color c cSt ASTM D445 46 44.9 44.3 SAMPLE IMAGES method imit/base current history1 history2 Color no image GRAPHS Ferrous Alloys 		Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
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Outor   Normal	2							
Emulsified Water scalar Visual >0.05 NEG NEG Free Water scalar Visual NEG NEG Free Water scalar Visual NEG NEG FLUID PROPERTIES method limit/base current history1 history2 Visc @ 40°C cSt ASTM D445 46 44.9 44.3 SAMPLE IMAGES method limit/base current history1 history2 Color no image Bottom no image Ferrous Alloys 		Odor						
Free Water   scalar   *Visual   NEG   NEG      FLUID PROPERTIES   method   limit/base   current   history1   history2     Visc @ 40°C   cSt   ASTM D445   46   44.9   44.3      SAMPLE IMAGES   method   limit/base   current   history1   history2     Color   Imit/base   current   history1   history2   no image     Bottom   Imit/base   current   history1   history2     Ned   Imit/base   current   history1   history2     Red   Imit/base   current   history1   history2     Color   Imit/base   current   history1   history2     Bottom   Imit/base   current   history1   history2     Imit/base   Imit/base   current   history1   history2     Imit/base   Imit/base   Imit/base   Imit/base   Imit/base     Imit/base   Imit/base   Imit/base   Imit/base   Imit/base     Imit/base   Imit/base   Imit/base   Imit/base <t< th=""><td></td><td>Cuoi</td><td></td><td></td><td></td><td></td><td></td><td></td></t<>		Cuoi						
FLUID PROPERTIES   method   limit/base   current   history1   history2     Visc @ 40°C   cSt   ASTM D445   46   44.9   44.3      SAMPLE IMAGES   method   limit/base   current   history1   history2     Color   Imit/base   current   history1   history2     Bottom   Imit/base   current   history1   history2     ReapHS   Imit/base   current   history1   history2     Non-ferrous Metals   Imit/base   Imit/base   ro   image     Imit/Data   Imit/base   Imit/base   Imit/base   ro   image					>0.05			
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SAMPLE IMAGES method limit/base current history1 history2 Color no image Bottom CRAPHS Ferrous Alloys 0 0 0 0 0 0 0 0 0 0 0 0 0		FLUID PROPER	RTIES	method	limit/base	current	history1	history2
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Bottom no image CRAPHS Ferrous Alloys 0 0 0 0 0 0 0 0 0 0 0 0 0		SAMPLE IMAGE	ES	method	limit/base	current	history1	history2
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Ferrous Alloys		Bottom						no image
		Non-ferrous Meta	als		May3/24 May3/24			
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Viscosity @ 40°C Acid Number		7 =	2			Acid Number		
					<sub>3</sub> 0.50			
50 + Abnormal		50 - 9			HO 0.40	Base	*****************************	****
€ 0.30		Base			Ë 0.30	D <b>-</b>		
る Abnomal		Abnormal			-e 0.20			
40 + <b>P</b>		40 + 9			2 0.10			
33		35			0.00	]		
Apr28/24		28/2			ay3/2	r28/2		
55 50 40 40 40 40 40 40 40 40 40 4		50 General Base 45 40 40 40 40 40 40 40 40 40 40			0.00	Base		
No. : UDI0000250 Received : 10 May 2024 2201 CURTISS STREE	Sample No		Rece	ived :10	) May 2024		2201 CUR	TISS STREE
	Lab Numb	er : 06175646		ed :13	3 May 2024		DOWNER	
ber : 06175646 Tested : 13 May 2024 DOWNERS GROVE,			Diagr	nosed : 13	May 2024 - Do	oug Bogart	<b>.</b>	US 6051
Iber:     06175646     Tested     : 13 May 2024     DOWNERS GROVE,       Inber:     : 11021699     Diagnosed     : 13 May 2024 - Doug Bogart     US 6051			where and a	000 007 400	h		Contact: MIC	HAEL FERRI
Iber:     06175646     Tested     : 13 May 2024     DOWNERS GROVE,       Inber:     : 11021699     Diagnosed     : 13 May 2024 - Doug Bogart     US 6051       age     : IND 2     Contact: MICHAEL FERRI								т
Inber : 06175646 Tested : 13 May 2024 DOWNERS GROVE,   Inber : 11021699 Diagnosed : 13 May 2024 - Doug Bogart DOWNERS GROVE,   iage : IND 2 Contact: MICHAEL FERRI   ipport, contact Customer Service at 1-800-237-1369. Contact: MICHAEL FERRI						rule (JCGM 104	S-2012) F-	-
Inber   : 06175646   Tested   : 13 May 2024   DOWNERS GROVE,     Inber   : 11021699   Diagnosed   : 13 May 2024 - Doug Bogart   US 6051     iage   : IND 2   Contact: MICHAEL FERRI     ipport, contact Customer Service at 1-800-237-1369.   Tested   : Tested   Tested     that are outside of the ISO 17025 scope of accreditation.   T   T	175646 (Generated: 05/13		Si ule Sili	πριο αυσερία				
Inber   : 06175646   Tested   : 13 May 2024   DOWNERS GROVE,     Inber   : 11021699   Diagnosed   : 13 May 2024 - Doug Bogart   US 605°     Contact:   MICHAEL FERR     inport, contact Customer Service at 1-800-237-1369.   Contact: MICHAEL FERR     that are outside of the ISO 17025 scope of accreditation.   Tested   : 13 May 2024 - Doug Bogart   Tested     to specifications are based on the simple acceptance decision rule (JCGM 106:2012)   F: (630)960-393		,						· · · • •

tion: MICHAE L FERRIS