

NORMAL

Machine Id

KAESER KAESER 2 (S/N 1403)

Component Compressor Fluid

ULTRACHEM OMNILUBE 32/46 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

The amount and size of particulates present in the system are acceptable. 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.

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2018	Jun2019	Jan2020	Aug2020	Nov2021	Mar2023	Aug2023	Feb2024



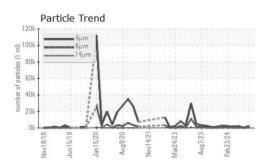
Sample Number Client Info WC0921404 WC0921404 WC0921404 WC0921404 Stample Status Sample Date Client Info 11 Jun 2024 13 May 2024 15 Apr 2024 Machine Age hrs Client Info 0 0 0 Oil Age hrs Client Info Not Changed Not Changed Not Changed Sample Status Client Info Not Changed Not Changed Not Changed Not Changed CONTAMINATION method Imit/base current History1 history2 Water WC Method >0.05 NEG NEG NEG Vickel ppm ASTM 05185 >30 0 0 <1 Itanium ppm ASTM 05185 >30 0 0 <1 Silver ppm ASTM 05185 >20 0 <1 <1 Vickel ppm ASTM 05185 >10 0 <1 <1 Silver ppm ASTM 05185 >10	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Machine Age hrs Client Info 12720 12069 11502 Oil Age hrs Client Info 0 0 0 Oil Age hrs Client Info Not Changd Not Changd Not Changd Sample Status Info Info Not Changd NoRMAL NORMAL CONTAMINATION method Imit/base current History! History! Water WC Method >0.05 NEG NEG NEG WEAR METALS method Imit/base current History! History! Iron ppm ASTM 05185m >10 0 0 <1 Nickel ppm ASTM 05185m >10 1 3 3 Itamium ppm ASTM 05185m >10 0 <1 1 Qandium ppm ASTM 05185m >10 0 <1 1 Copper ppm ASTM 05185m 0 0 <1 1	Sample Number		Client Info		WC0921404	WC0921400	WC0921396
Oil Age hrs Client Info 0 0 0 Oil Changed Client Info Not Changel Not Changel Not Changel Not Changel Sample Status Client Info Nor MAL Nor MAL Nor MAL CONTAMINATION method inni/base current history1 Water WC Method >0.05 NEG NEG NEG WEAR METALS method inni/base current history2 Iron ppm ASTM D5185m >50 0 0 <1 Chromium ppm ASTM D5185m >30 0 <1 Silver ppm ASTM D5185m >30 0 <1 Silver ppm ASTM D5185m >10 1 3 3 Lead ppm ASTM D5185m >10 0 <1 <1 Vanadium ppm ASTM D5185m >10 0 <1 1 <tr< th=""><th>Sample Date</th><th></th><th>Client Info</th><th></th><th>11 Jun 2024</th><th>13 May 2024</th><th>15 Apr 2024</th></tr<>	Sample Date		Client Info		11 Jun 2024	13 May 2024	15 Apr 2024
Oil Changed Sample Status Client Info Not Changd NORMAL Not Changd NORMAL Not Changd NORMAL Not Changd NORMAL CONTAMINATION method imit/base current history1 history2 Water WC Method >0.05 NEG NEG NEG NEG WEAR METALS method imit/base current history1 history2 Iron ppm ASTM D5185m >50 0 0 <1	Machine Age	hrs	Client Info		12720	12069	11502
Sample Status NORMAL NORMAL NORMAL NORMAL NORMAL CONTAMINATION method imit/base current history1 history2 Water WC Method >0.05 NEG NEG NEG WEAR METALS method imit/base current history1 history2 Iron ppm ASTM D585m >50 0 0 <1	Oil Age	hrs	Client Info		0	0	0
CONTAMINATION method imit/base current history1 history2 Water WC Method >0.05 NEG NEG NEG Water WC Method >0.05 NEG NEG NEG WEAR METALS method imit/base current history1 history2 Iron ppm ASTM D5185m >50 0 0 <1 Nickel ppm ASTM D5185m >3 0 0 <1 Silver ppm ASTM D5185m >3 <1 0 <1 Aluminum ppm ASTM D5185m >10 0 <1 <1 Copper ppm ASTM D5185m >10 0 <1 <1 Vanadium ppm ASTM D5185m 0 0 <1 <1 Vanadium ppm ASTM D5185m 0 0 <1 <1 ADDITIVES method imit/base current history1 history2	Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Water WC Method >0.05 NEG NEG NEG WARA METALS method limit/base current history1 history2 Iron ppm ASTM D5168m >10 0 0 <1 Nickel ppm ASTM D5168m >3 0 0 <1 Nickel ppm ASTM D5168m >3 <1 0 <1 Aluminum ppm ASTM D5168m >3 <1 0 <1 Aluminum ppm ASTM D5168m >10 0 <1 <1 Copper ppm ASTM D5168m >10 0 <1 <1 Cadmium ppm ASTM D5168m >10 0 <1 <1 Adadium ppm ASTM D5168m 1 0 0 <1 Vanadium ppm ASTM D5168m 0 0 <1 <1 Vanadium ppm ASTM D5168m 0 0 <1 0 <th>Sample Status</th> <th></th> <th></th> <th></th> <th>NORMAL</th> <th>NORMAL</th> <th>NORMAL</th>	Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >50 0 0 <1 Ohromium ppm ASTM D5185m >3 0 0 <1 Nickel ppm ASTM D5185m >3 0 0 <1 Nickel ppm ASTM D5185m >3 <1 0 <1 Silver ppm ASTM D5185m >2 0 <1 Aluminum ppm ASTM D5185m >10 0 <1 <1 Lead ppm ASTM D5185m >10 0 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 1 <1 1 <1	CONTAMINATIO	N	method	limit/base	current	history1	history2
Iron ppm ASTM D5185m >50 0 0 <1	Water		WC Method	>0.05	NEG	NEG	NEG
Chromium ppm ASTM D5185m >10 0 0 <1	WEAR METALS		method	limit/base	current	history1	history2
Nickel ppm ASTM D5185m >3 0 0 <1	Iron	ppm	ASTM D5185m	>50	0	0	<1
Titanium ppm ASTM 05185m >3 <1	Chromium	ppm	ASTM D5185m	>10	0	0	<1
Silver ppm ASTM D5185m >2 0 0 <1	Nickel	ppm	ASTM D5185m	>3	0	0	<1
Aluminum ppm ASTM D5185m >10 1 3 3 Lead ppm ASTM D5185m >10 0 0 <1 Copper ppm ASTM D5185m >50 <1 2 <1 Tin ppm ASTM D5185m >10 0 <1 <1 Vanadium ppm ASTM D5185m <1 0 <1 <1 Cadmium ppm ASTM D5185m 0 0 0 <1 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 0 0 0 Marganese ppm ASTM D5185m 0.3 0 0 <1 Magnesium ppm ASTM D5185m 0.5 0 1 0 Physphorus ppm ASTM D5185m 0.2 8 9 0 Sulfur ppm ASTM D5185m 2.2 1 1	Titanium	ppm	ASTM D5185m	>3	<1	0	<1
Lead ppm ASTM D5185n >10 0 0 <1	Silver	ppm	ASTM D5185m	>2	0	0	<1
Copper ppm ASTM D5185m >50 <1	Aluminum	ppm	ASTM D5185m	>10	1	3	3
Tin ppm ASTM D5185m >10 0 <1	Lead	ppm	ASTM D5185m	>10	0	0	<1
Vanadium ppm ASTM D5185m <1	Copper	ppm	ASTM D5185m	>50	<1	2	<1
Cadmium ppm ASTM D5185m 0 0 <1	Tin	ppm	ASTM D5185m	>10	0	<1	<1
ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 1 0 0 0 Barium ppm ASTM D5185m 0.3 0 0 0 Molybdenum ppm ASTM D5185m 0.3 0 0 0 1 Manganese ppm ASTM D5185m 0 <1 <1 <1 <1 Magnesium ppm ASTM D5185m 0 <1 0 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 1 <1 1 <1 <th>Vanadium</th> <th>ppm</th> <th>ASTM D5185m</th> <th></th> <th><1</th> <th>0</th> <th><1</th>	Vanadium	ppm	ASTM D5185m		<1	0	<1
Boron ppm ASTM D5185m 1 0 0 0 Barium ppm ASTM D5185m 0.3 0 0 0 Molybdenum ppm ASTM D5185m 0 0 0 0 0 Manganese ppm ASTM D5185m 0 <1	Cadmium	ppm	ASTM D5185m		0	0	<1
Barium ppm ASTM D5185m 0.3 0 0 0 0 Molybdenum ppm ASTM D5185m 0 <1 <1 <1 Manganese ppm ASTM D5185m 0 <1 <1 <1 Magnesium ppm ASTM D5185m 0 <1 0 <1 Calcium ppm ASTM D5185m 0.5 0 1 0 <1 Phosphorus ppm ASTM D5185m 0.5 0 1 0 <1 Sulfur ppm ASTM D5185m 0.2 8 9 0 0 Sulfur ppm ASTM D5185m 0.2 8 9 0 0 Sulfur ppm ASTM D5185m 0.2 8 9 0 0 Sulfur ppm ASTM D5185m 0.2 1 41 0 1 2 Sulfur ppm ASTM D5185m >20 <1 1 1 <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 Manganese ppm ASTM D5185m 0 <1 <1 <1 Magnesium ppm ASTM D5185m 0 <1 0 <1 Calcium ppm ASTM D5185m 0.5 0 1 0 Phosphorus ppm ASTM D5185m 0.2 8 9 0 Sulfur ppm ASTM D5185m 0.2 1402 1538 929 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D7647 1300 6	Boron	ppm	ASTM D5185m	1	0	0	0
Manganese ppm ASTM D5185m 0 <1	Barium	ppm	ASTM D5185m	0.3	0	0	0
Magnesium ppm ASTM D5185m 0 <1	Molybdenum	ppm	ASTM D5185m	0	0	0	<1
Calcium ppm ASTM D5185m 0.5 0 1 0 Phosphorus ppm ASTM D5185m 536 176 231 185 Zinc ppm ASTM D5185m 0.2 8 9 0 Sulfur ppm ASTM D5185m 649 1402 1538 929 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 <1 <1 0 Sodium ppm ASTM D5185m >25 <1 <1 21 Sodium ppm ASTM D5185m >20 <1 <1 2 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >1300 804 195 554 Particles >14µm ASTM D7647 >20 10 3 8 Particles >21µm ASTM D7647 20 10 0	Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Phosphorus ppm ASTM D5185m 536 176 231 185 Zinc ppm ASTM D5185m 0.2 8 9 0 Sulfur ppm ASTM D5185m 649 1402 1538 929 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 <1 <1 <1 Sodium ppm ASTM D5185m >25 <1 <1 0 Potassium ppm ASTM D5185m >20 <1 <1 2 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >1300 804 195 554 Particles >14µm ASTM D7647 >80 55 12 29 Particles >21µm ASTM D7647 >20 10 3 8 Particles >38µm ASTM D7647 0 0 0 0 <th>Magnesium</th> <th>ppm</th> <th>ASTM D5185m</th> <th>0</th> <th><1</th> <th>0</th> <th><1</th>	Magnesium	ppm	ASTM D5185m	0	<1	0	<1
Zinc ppm ASTM D5185m 0.2 8 9 0 Sulfur ppm ASTM D5185m 649 1402 1538 929 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 <1 <1 <1 Sodium ppm ASTM D5185m >25 <1 <1 0 Potassium ppm ASTM D5185m >20 <1 <1 2 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 2179 621 2197 Particles >6µm ASTM D7647 >1300 804 195 554 Particles >1µm ASTM D7647 >20 10 3 8 Particles >21µm ASTM D7647 >20 10 3 8 Particles >38µm ASTM D7647 >3 0 0 0 0	Calcium	ppm	ASTM D5185m	0.5	0	1	0
Sulfur ppm ASTM D5185m 649 1402 1538 929 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 <1	Phosphorus	ppm	ASTM D5185m	536	176	231	185
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 <1 <1 <1 Sodium ppm ASTM D5185m >25 <1 <1 <1 Sodium ppm ASTM D5185m >20 <1 1 0 Potassium ppm ASTM D5185m >20 <1 <1 2 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 2179 621 2197 Particles >6µm ASTM D7647 >1300 804 195 554 Particles >14µm ASTM D7647 >80 55 12 29 Particles >21µm ASTM D7647 >20 10 3 8 Particles >38µm ASTM D7647 >3 0 0 0 Particles >71µm ASTM D7647 >3 0 0 0 Oil Cleanliness	Zinc	ppm	ASTM D5185m	0.2	8	9	0
Silicon ppm ASTM D5185m >25 <1	Sulfur	ppm	ASTM D5185m	649	1402	1538	929
Sodium ppm ASTM D5185m <1	CONTAMINANTS	\$	method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m >20 <1	Silicon	ppm	ASTM D5185m	>25		<1	<1
FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 2179 621 2197 Particles >6µm ASTM D7647 >1300 804 195 554 Particles >14µm ASTM D7647 >80 55 12 29 Particles >21µm ASTM D7647 >20 10 3 8 Particles >21µm ASTM D7647 >20 10 3 8 Particles >38µm ASTM D7647 >4 0 0 0 Particles >71µm ASTM D7647 >3 0 0 0 Oil Cleanliness ISO 4406 (c) >/17/13 18/17/13 16/15/11 18/16/12 FLUID DEGRADATION method Iimit/base current history1 history2 Acid Number (AN) mg KOHg ASTM D8045 0.337 0.19 0.28 0.26	Sodium	ppm			<1	1	
Particles >4μm ASTM D7647 2179 621 2197 Particles >6μm ASTM D7647 >1300 804 195 554 Particles >14μm ASTM D7647 >80 55 12 29 Particles >21μm ASTM D7647 >20 10 3 8 Particles >21μm ASTM D7647 >20 10 3 8 Particles >38μm ASTM D7647 >4 0 0 0 Particles >71μm ASTM D7647 >3 0 0 0 Oli Cleanliness ISO 4406 (c) >/17/13 18/17/13 16/15/11 18/16/12 FLUID DEGRADATION method limit/base current history1 history2 Acid Number (AN) mg KOHg ASTM D8045 0.337 0.19 0.28 0.26	Potassium	ppm	ASTM D5185m	>20	<1	<1	2
Particles >6µm ASTM D7647 >1300 804 195 554 Particles >14µm ASTM D7647 >80 55 12 29 Particles >21µm ASTM D7647 >20 10 3 8 Particles >21µm ASTM D7647 >20 10 3 8 Particles >38µm ASTM D7647 >4 0 0 0 Particles >71µm ASTM D7647 >3 0 0 0 Oil Cleanliness ISO 4406 (c) >/17/13 18/17/13 16/15/11 18/16/12 FLUID DEGRADATION method limit/base current history1 history2 Acid Number (AN) mg KOH/g ASTM D8045 0.337 0.19 0.28 0.26	FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >14µm ASTM D7647 >80 55 12 29 Particles >21µm ASTM D7647 >20 10 3 8 Particles >38µm ASTM D7647 >4 0 0 0 Particles >38µm ASTM D7647 >4 0 0 0 Particles >71µm ASTM D7647 >3 0 0 0 Oil Cleanliness ISO 4406 (c) >/17/13 18/17/13 16/15/11 18/16/12 FLUID DEGRADATION method limit/base current history1 history2 Acid Number (AN) mg KOH/g ASTM D8045 0.337 0.19 0.28 0.26							
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Particles >38μm ASTM D7647 >4 0 0 0 Particles >71μm ASTM D7647 >3 0 0 0 Oil Cleanliness ISO 4406 (c) >/17/13 18/17/13 16/15/11 18/16/12 FLUID DEGRADATION method limit/base current history1 history2 Acid Number (AN) mg KOH/g ASTM D8045 0.337 0.19 0.28 0.26							
Particles >71μm ASTM D7647 >3 0 0 0 Oil Cleanliness ISO 4406 (c) >/17/13 18/17/13 16/15/11 18/16/12 FLUID DEGRADATION method limit/base current history1 history2 Acid Number (AN) mg KOH/g ASTM D8045 0.337 0.19 0.28 0.26							
Oil Cleanliness ISO 4406 (c) >/17/13 18/17/13 16/15/11 18/16/12 FLUID DEGRADATION method limit/base current history1 history2 Acid Number (AN) mg KOH/g ASTM D8045 0.337 0.19 0.28 0.26							
FLUID DEGRADATION method limit/base current history1 history2 Acid Number (AN) mg KOH/g ASTM D8045 0.337 0.19 0.28 0.26							
Acid Number (AN) mg KOH/g ASTM D8045 0.337 0.19 0.28 0.26			ISO 4406 (c)	>/17/13	18/17/13	16/15/11	18/16/12
	FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
	. ,	mg KOH/g	ASTM D8045	0.337	0.19		

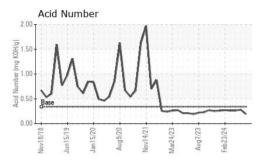
Report Id: BURNEV [WUSCAR] 06212328 (Generated: 06/22/2024 01:54:39) Rev: 1

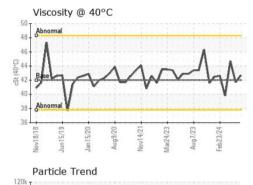
Contact/Location: EDWARDO COBIO - BURNEV

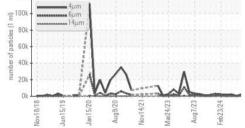


OIL ANALYSIS REPORT





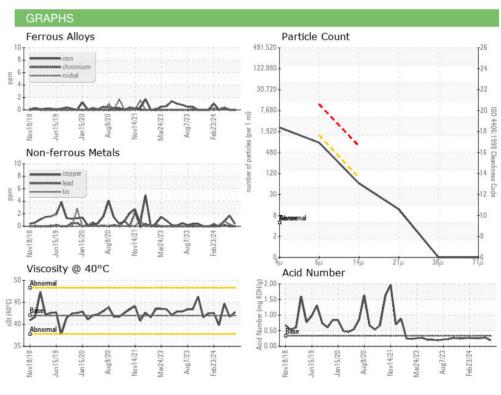




VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	42.0	42.7	41.7	44.7
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color				. 6		



Bottom



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 **BURKE CORPORATION.** Sample No. : WC0921404 Received : 17 Jun 2024 1516 SOUTH D AVE Lab Number : 06212328 Tested : 19 Jun 2024 NEVADA, IA Unique Number : 11085192 Diagnosed : 19 Jun 2024 - Don Baldridge US 50201 Test Package : IND 2 (Additional Tests: PrtCount) Contact: EDWARDO COBIO Certificate 12367 JECOBIO@BURKECORP.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: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (515)382-3955

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Contact/Location: EDWARDO COBIO - BURNEV