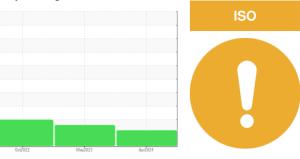


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

7677469 (S/N 1437) Component Compressor

Compressor Fluid KAESER SIGMA (OEM) M-460 (--- GAL)

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

Fluid Condition

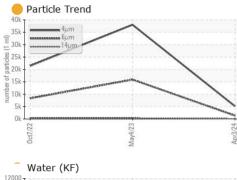
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sample Date Client Info 03 Apr 2024 04 May 2023 07 Oct 2022 Machine Age hrs Client Info 14718 12175 7590 Oil Age hrs Client Info 2543 4585 7590 Oil Changed Client Info Changed Changed <thchanged< th=""> <thchange< th=""> Ch</thchange<></thchanged<>	SAMPLE INFORM	ΛΑΤΙΟΝ	method	limit/base	current	history1	history2
Machine Age Oil Age Oil Age Oil Age Age hrs Client Info 14718 2543 12175 7590 7590 Oil Age Sample Status Client Info 2543 4585 7590 Oil Age Sample Status Client Info ATTENTION ABNORMAL Changed ABNORMAL Changed ABNORMAL ABNORMAL WEAR METALS method Imit/base current history1 history2 Iron ppm ASTM 05185m >50 0 0 0 Nickel ppm ASTM 05185m >3 0 0 0 Sliver ppm ASTM 05185m >10 0 0 0 Lead ppm ASTM 05185m >10 0 0 0 Cadmium ppm ASTM 05185m 0 0 0 0 Manganese ppm ASTM 05185m 0 0 0 0 Cadmium ppm ASTM 05185m 0 0 0 0 Manganese ppm ASTM 05185m 0 0<	Sample Number		Client Info		KCPA016060	KCP53666	KCP45986
Oil Age hrs Client Info 2543 4585 7590 Oil Changed Client Info Changed Change Change Change	Sample Date		Client Info		03 Apr 2024	04 May 2023	07 Oct 2022
Oil Changed Sample Status Client Info Changed ATTENTION Changed ABNORMAL Changed ABNORMAL <thchanged ABNO</thchanged 	Machine Age	hrs	Client Info		14718	12175	7590
Sample Status ATTENTION ABNORMAL ABNORMAL WEAR METALS method Imitibase current history1 history2 Iron ppm ASTM D5185m >50 0 0 0 Chromium ppm ASTM D5185m >3 0 0 0 Nickel ppm ASTM D5185m >3 0 0 0 Silver ppm ASTM D5185m >3 0 0 0 Aluminum ppm ASTM D5185m >10 0 0 0 Lead ppm ASTM D5185m >10 0 0 0 Copper ppm ASTM D5185m >10 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 ADDITIVES method Imit/base current history1 history2 Boron ppm ASTM D5185m 0 0 0 0 Magnesium </td <th>Oil Age</th> <td>hrs</td> <td>Client Info</td> <td></td> <th>2543</th> <td>4585</td> <td>7590</td>	Oil Age	hrs	Client Info		2543	4585	7590
WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >50 0 0 0 Nickel ppm ASTM D5185m >3 0 0 0 Nickel ppm ASTM D5185m >3 0 0 0 Silver ppm ASTM D5185m >2 0 0 0 Auminum ppm ASTM D5185m >10 0 0 0 Lead ppm ASTM D5185m >10 0 0 0 Vanadium ppm ASTM D5185m >10 0 0 0 Vanadium ppm ASTM D5185m >10 0 0 0 Barium ppm ASTM D5185m 0 0 0 0 Manganese ppm ASTM D5185m 0 0 0 0 Manganese ppm ASTM D5185m 0 0 0 0 <th>Oil Changed</th> <td></td> <td>Client Info</td> <td></td> <th>Changed</th> <td>Changed</td> <td>Changed</td>	Oil Changed		Client Info		Changed	Changed	Changed
Iron ppm ASTM D5185m >50 0 0 0 Nickel ppm ASTM D5185m >3 0 0 0 Nickel ppm ASTM D5185m >3 0 0 0 Silver ppm ASTM D5185m >3 0 0 0 Auminum ppm ASTM D5185m >10 0 0 0 Lead ppm ASTM D5185m >10 0 0 0 Copper ppm ASTM D5185m >10 0 0 0 Vanadium ppm ASTM D5185m >10 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 Maganese ppm ASTM D5185m 0 0 0 0 Maganese ppm ASTM D5185m 0 0 0 0 Maganese ppm ASTM D5185m 0 0 0 0 </td <th>Sample Status</th> <td></td> <td></td> <td></td> <th>ATTENTION</th> <td>ABNORMAL</td> <td>ABNORMAL</td>	Sample Status				ATTENTION	ABNORMAL	ABNORMAL
Chromium ppm ASTM D5185m >10 0 0 0 Nickel ppm ASTM D5185m >3 0 0 0 Silver ppm ASTM D5185m >2 0 0 0 Silver ppm ASTM D5185m >10 0 0 0 Aluminum ppm ASTM D5185m >10 0 0 0 Lead ppm ASTM D5185m >10 0 0 0 Vanadium ppm ASTM D5185m >10 0 0 0 0 Vanadium ppm ASTM D5185m 10 0 0 0 0 Astm D5185m 0 0 0 0 0 0 0 Magnesium ppm ASTM D5185m 0 0 0 0 0 Galaium ppm ASTM D5185m 100 0 0 0 0 Contraminum ppm	WEAR METALS		method	limit/base	current	history1	history2
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Titanium ppm ASTM D5185m >3 0 0 0 Silver ppm ASTM D5185m >2 0 0 0 Aluminum ppm ASTM D5185m >10 0 0 0 Lead ppm ASTM D5185m >10 0 0 0 Copper ppm ASTM D5185m >10 0 0 0 Yanadium ppm ASTM D5185m >10 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 0 ABTM D5185m 0 0 0 0 0 0 0 Boron ppm ASTM D5185m 0 0 0 0 0 Maganese ppm ASTM D5185m 0 0 0 0 0 Maganese ppm ASTM D5185m 0 0 0 0 0 Sulfur ppm ASTM D5185m<	Chromium	ppm	ASTM D5185m	>10	0	0	0
Silver ppm ASTM D5185m >2 0 0 0 Aluminum ppm ASTM D5185m >10 0 0 0 Lead ppm ASTM D5185m >10 0 0 0 Copper ppm ASTM D5185m >10 0 0 <1	Nickel		ASTM D5185m	>3	0	0	0
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Copper ppm ASTM D5185m >50 9 7 10 Tin ppm ASTM D5185m >10 0 0 <1	Aluminum	ppm	ASTM D5185m	>10	0	0	0
Tin ppm ASTM D5185m >10 0 0 <11 Vanadium 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 Magnese ppm ASTM D5185m 0 0 0 0 Magnesium ppm ASTM D5185m 0 0 0 0 0 Calcium ppm ASTM D5185m 0 0 0 0 0 Phosphorus ppm ASTM D5185m 0 0 0 0 0 Sulfur ppm ASTM D5185m 23500 18784 16293 16875 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m	Lead	ppm	ASTM D5185m	>10	0	0	0
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Vanadium 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 Barium ppm ASTM D5185m 0 0 0 0 Molybdenum ppm ASTM D5185m 0 0 0 0 Maganese ppm ASTM D5185m 100 0 1 0 Calcium ppm ASTM D5185m 0 0 0 0 Calcium ppm ASTM D5185m 0 0 0 0 Sulfur ppm ASTM D5185m 23500 18784 16293 16875 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 0 <1 <th>••</th> <td></td> <td></td> <td></td> <th>0</th> <td>0</td> <td><1</td>	••				0	0	<1
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Boron ppm ASTM D5185m 0 0 0 0 0 Barium ppm ASTM D5185m 90 0 0 0 Molybdenum ppm ASTM D5185m 0 0 0 0 Manganese ppm ASTM D5185m 100 0 1 0 Calcium ppm ASTM D5185m 0 0 0 0 0 Calcium ppm ASTM D5185m 0 0 0 0 0 Calcium ppm ASTM D5185m 0 0 0 0 0 Silfur ppm ASTM D5185m 23500 18784 16293 16875 CONTAMINANTS method imit/base current history1 history2 Silicon ppm ASTM D5185m >20 0 <1	Cadmium	ppm	ASTM D5185m		0	0	0
Barium ppm ASTM D5185m 90 0 0 0 0 Molybdenum ppm ASTM D5185m 0 0 0 0 0 Maganese ppm ASTM D5185m 100 0 1 0 Magnesium ppm ASTM D5185m 100 0 0 0 Calcium ppm ASTM D5185m 0 0 0 0 0 Phosphorus ppm ASTM D5185m 0 0 0 0 0 Sulfur ppm ASTM D5185m 23500 18784 16293 16875 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 0 0 0 Sodium ppm ASTM D5185m >20 0 <1 0 Vater % ASTM D6304 >0.05 0.0005 0.008 0.007 particles >4µm	ADDITIVES		method	limit/base	current	history1	history2
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Marganesse ppm ASTM D5185m 0 0 0 Magnesium ppm ASTM D5185m 100 0 1 0 Calcium ppm ASTM D5185m 0 0 0 0 Phosphorus ppm ASTM D5185m 0 0 0 0 Sulfur ppm ASTM D5185m 23500 18784 16293 16875 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 0 0 0 Sodium ppm ASTM D5185m >20 0 <1	Barium	ppm	ASTM D5185m	90	0	0	0
Magnesium ppm ASTM D5185m 100 0 1 0 Calcium ppm ASTM D5185m 0 0 0 0 Phosphorus ppm ASTM D5185m 0 0 0 0 Zinc ppm ASTM D5185m 0 0 0 0 Sulfur ppm ASTM D5185m 23500 18784 16293 16875 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 0 0 0 Sodium ppm ASTM D5185m >20 0 <1	Molybdenum	ppm	ASTM D5185m	0	0	0	0
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Sulfur ppm ASTM D5185m 23500 18784 16293 16875 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 0 0 <1	Phosphorus	ppm	ASTM D5185m	0	0	0	4
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 0 0 <1	Zinc	ppm	ASTM D5185m	0	0	0	0
Silicon ppm ASTM D5185m >25 0 0 <1 Sodium ppm ASTM D5185m 0 0 0 0 Potassium ppm ASTM D5185m >20 0 <1	Sulfur	ppm	ASTM D5185m	23500	18784	16293	16875
Sodium ppm ASTM D5185m 0 0 0 Potassium ppm ASTM D5185m >20 0 <1 0 Water % ASTM D6304 >0.05 0.005 0.008 0.007 ppm Water ppm ASTM D6304 >500 58 85.2 72.7 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 5134 38024 21435 Particles >6µm ASTM D7647 >1300 1372 15906 8349 Particles >14µm ASTM D7647 >20 28 65 75 Particles >21µm ASTM D7647 >20 28 65 75 Particles >38µm ASTM D7647 >3 0 0 1 Oil Cleanliness ISO 4406 (c) >/17/13 20/18/14 22/21/16 22/20/16 FLUID DEGRADATION method limit/base current history1 history2	CONTAMINANTS	5	method	limit/base	current	history1	history2
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Water % ASTM D6304 >0.05 0.005 0.008 0.007 ppm Water ppm ASTM D6304 >500 58 85.2 72.7 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 5134 38024 21435 Particles >6µm ASTM D7647 5134 38024 21435 Particles >6µm ASTM D7647 5134 38024 21435 Particles >6µm ASTM D7647 >1300 1372 15906 8349 Particles >14µm ASTM D7647 >20 28 65 75 Particles >21µm ASTM D7647 >20 28 65 75 Particles >38µm ASTM D7647 >3 0 0 1 Oil Cleanliness ISO 4406 (c) >/17/13 20/18/14 22/21/16 22/20/16 FLUID DEGRADATION method limit/base current history1 history2	Sodium	ppm	ASTM D5185m		0	0	0
ppm Water ppm ASTM D6304 >500 58 85.2 72.7 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 5134 38024 21435 Particles >6µm ASTM D7647 >1300 1372 15906 8349 Particles >6µm ASTM D7647 >80 97 372 391 Particles >14µm ASTM D7647 >20 28 65 75 Particles >21µm ASTM D7647 >4 2 2 5 Particles >38µm ASTM D7647 >4 2 2 5 Particles >71µm ASTM D7647 >3 0 0 1 Oil Cleanliness ISO 4406 (c) /17/13 20/18/14 22/21/16 22/20/16 FLUID DEGRADATION method limit/base current history1 history2	Potassium	ppm	ASTM D5185m	>20	-	<1	0
FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 5134 38024 21435 Particles >6µm ASTM D7647 >1300 1372 15906 8349 Particles >14µm ASTM D7647 >80 97 372 391 Particles >21µm ASTM D7647 >20 28 65 75 Particles >38µm ASTM D7647 >4 2 2 5 Particles >71µm ASTM D7647 >3 0 0 1 Oil Cleanliness ISO 4406 (c) >/17/13 20/18/14 22/21/16 22/20/16	Water	%	ASTM D6304	>0.05		0.008	0.007
Particles >4µm ASTM D7647 5134 38024 21435 Particles >6µm ASTM D7647 >1300 1372 15906 8349 Particles >14µm ASTM D7647 >80 97 372 391 Particles >21µm ASTM D7647 >20 28 65 75 Particles >38µm ASTM D7647 >4 2 2 5 Particles >38µm ASTM D7647 >3 0 0 1 Oil Cleanliness ISO 4406 (c) >/17/13 20/18/14 22/20/16 22/20/16	ppm Water	ppm	ASTM D6304	>500	58	85.2	72.7
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Particles >21μm ASTM D7647 >20 28 65 75 Particles >38μm ASTM D7647 >4 2 2 5 Particles >71μm ASTM D7647 >3 0 0 1 Oil Cleanliness ISO 4406 (c) >/17/13 20/18/14 22/21/16 22/20/16 FLUID DEGRADATION method limit/base current history1 history2			ASTM D7647	>1300	-		▲ 8349
Particles >38µm ASTM D7647 >4 2 2 ▲ 5 Particles >71µm ASTM D7647 >3 0 0 1 Oil Cleanliness ISO 4406 (c) >/17/13 20/18/14 ▲ 22/21/16 ▲ 22/20/16 FLUID DEGRADATION method limit/base current history1 history2	Particles >14µm				-		
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Oil Cleanliness ISO 4406 (c) >/17/13 20/18/14 22/21/16 22/20/16 FLUID DEGRADATION method limit/base current history1 history2	Particles >38µm		ASTM D7647	>4		2	<u> </u>
FLUID DEGRADATION method limit/base current history1 history2	Particles >71µm		ASTM D7647	>3	0	0	1
	Oil Cleanliness		ISO 4406 (c)	>/17/13	<mark>)</mark> 20/18/14	▲ 22/21/16	22/20/16
Acid Number (AN) mg KOH/g ASTM D8045 1.0 0.39 0.38 0.20	FLUID DEGRADA	TION	method	limit/base	current	history1	history2
	Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.39	0.38	0.20

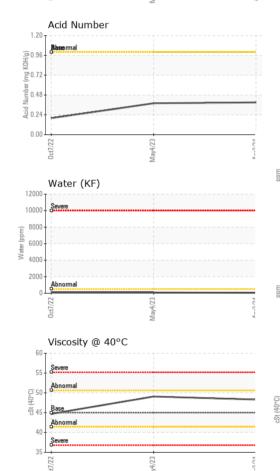
Contact/Location: Service Manager - NORRICTX Page 1 of 2



OIL ANALYSIS REPORT

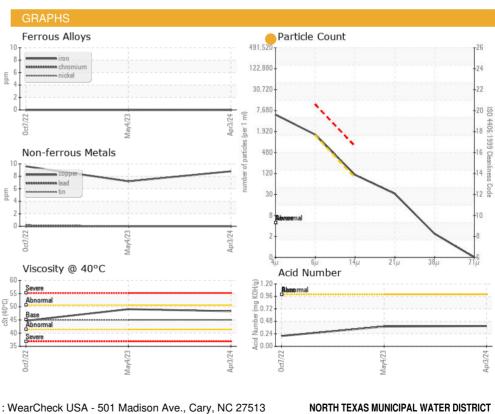






NONE NONE White Metal *Visual NONE NONE scalar Yellow Metal *Visual NONE NONE NONE NONE scalar NONE Precipitate scalar *Visua NONE NONE NONE Silt scalar *Visual NONE NONE NONE NONE *Visual NONE Debris NONE LIGHT LIGHT scalar NONE Sand/Dirt scalar *Visual NONE NONE NONE NORML Appearance *Visual NORML NORML NORML scalar Odor *Visual NORML NORML NORML scalar NORML *Visual **Emulsified Water** scalar >0.05 NEG NEG NEG Free Water scalar *Visual NEG NEG NEG FLUID PROPERTIES Visc @ 40°C cSt ASTM D445 45 48.3 49.07 44.7 SAMPLE IMAGES Color

Bottom





Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : KCPA016060 Received : 10 Apr 2024 111 FT BURKTOWN RD Lab Number Tested RICHARDSON, TX :06144247 : 11 Apr 2024 Unique Number : 10969055 Diagnosed : 12 Apr 2024 - Angela Borella US 75081 Contact: Service Manager Test Package : IND 2 (Additional Tests: KF, PrtCount) Certificate 12367 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:

Contact/Location: Service Manager - NORRICTX Page 2 of 2