

TC: 37	Sub Name: BCS	Unit No.: T1 LTC	Serial No.: 1455068	Other: RETIRED UNIT IS TC#
Customer: Keys Energy Services	Facility: 6900 Front Street EXT Key West, FL	Customer Number: 2278000	Location: OUTDOOR/GROUND Floor 1	

Nameplate Info	Manufacturer: REINHAUSEN Mfg Date: Serial No.: 1455068 kVA: High Voltage: Low Voltage: 13,800 Weight (lb):	Equipment Type: VACUUM LTC Transformer Class: Impedance %: Phase / Cycle: Liquid Type: OIL Gallons: 467 Other Access:	Radiators: Fans: Water Cooled: Oil Pumps: Top FPV (inch): 0.50 valve Bottom FPV (inch): 1.00 valve Insulation Type:	Conservator Tank: No LTC Compartment: Bushing Location: Breather: FREE Hose Length (ft): Service Online: Power Available:	Overview Chemical Mechanical Electrical
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Chemical Data

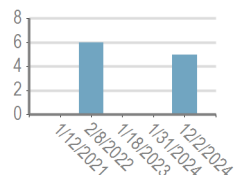
Liquid Screen Data

Acid ASTM D974 IFT ASTM D971 ASTM D877 ASTM D1816 Color ASTM D6045/D1500										
Draw Date	Service	Acid (mg KOH/g)	IFT (mN/m)	D877 (kV)	D1816 (kV)	Gap (mm)	ASTM Color	Sp. Gr. D1298	Visual D1524	Sediment D1524
02 Dec 2024		0.030 ✓	31.5 ⚠	47 ✓	—		2.00 ✓	0.880 ✓	CLEAR ✓	NONE ✓
31 Jan 2024		0.030 ✓	34.0 ✓	60 ✓	—		2.00 ✓	0.878 ✓	CLEAR ✓	NONE ✓
18 Jan 2023		0.030 ✓	38.4 ✓	52 ✓	—		2.00 ✓	0.882 ✓	CLEAR ✓	NONE ✓

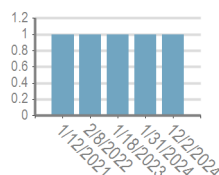
Inhibitor ASTM D2668	Inhibitor No Data Available	Draw Date	INH%	SDMyers Notes / Recommendations	Power Factor-25°C No Data Available	Power Factor-100°C No Data Available	Draw Date	25°C %	100°C %
				Inhibitor for FR3 fluid is excluded from the ISO 17025 accreditation.					

PCB ASTM D4059	Class: NON-PCB Label: Green Results in PPM (mg/kg)	Draw Date 29 Jan 2015	1242 ND	1254 ND	1260 ND	Other ND	Total ND	Liquid Power Factor ASTM D924 Hybrid
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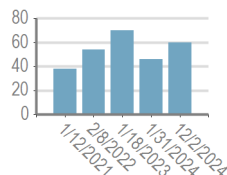
Hydrogen (H₂)



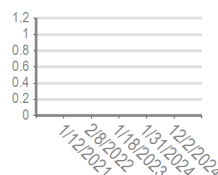
Methane (CH₄)



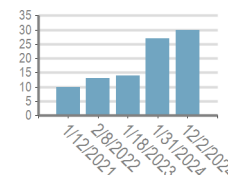
Carbon Monoxide (CO)



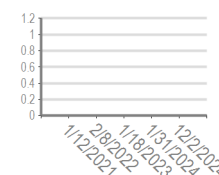
Ethane (C₂H₆)



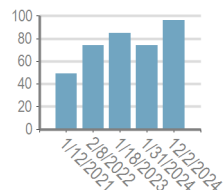
Ethylene (C₂H₄)



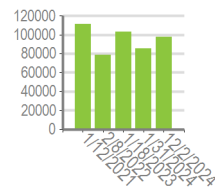
Acetylene (C₂H₂)



TDCG



Total Gas



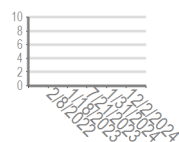
Draw Date	Hydrogen	Oxygen	Nitrogen	Methane	Carbon Monoxide	Carbon Dioxide	Ethane	Ethylene	Acetylene	TDCG	Total Gas
02 Dec 2024	5	30,085	66,137	1	60	1,410	ND	30	ND	96	97,728
31 Jan 2024	ND	27,759	56,405	1	46	1,214	ND	27	ND	74	85,452
18 Jan 2023	ND	31,546	70,489	1	70	1,084	ND	14	ND	85	103,204
08 Feb 2022	6	23,332	53,812	1	54	1,310	ND	13	ND	74	78,528
12 Jan 2021	ND	33,852	76,174	1	38	1,059	ND	10	ND	49	111,134

SDMyers Notes / Recommendations

RETEST 6 MO. (DUE TO PRTCL CNT)

YT-THE VOLUME AND RATIO OF COMBUSTIBLE GASES PRODUCED IS NORMAL FOR A VACUUM INTERRUPTER UNIT. TO INCREASE RELIABILITY, WE RECOMMEND A PREVENTATIVE MAINTENANCE PROGRAM THAT INCLUDES PERIODIC TESTING TO MONITOR FOR ANY ABNORMAL CHANGES.

Moisture - % Sat



Draw Date	Avg. Temp °C	PPM mg/kg	%SAT	%MBDW
02 Dec 2024	26	37	N/A 🚩	N/A
31 Jan 2024	31	35	N/A ✅	N/A
21 Jul 2023	55	43	N/A 🚩	N/A
18 Jan 2023	29	36	N/A 🚩	N/A
08 Feb 2022	32	27	N/A ✅	N/A

SDMyers Notes / Recommendations

RETEST 6 MONTHS

The moisture content has increased and is now questionable. A shorter test interval is recommended to monitor this unit. Retest for moisture when the load and temperature of the unit are as stable as possible.

Dissolved Metals

No Data Available

SDMyers Notes / Recommendations

Furans PPB (µg/kg)

No Data Available

Draw Date	5H2F	2FOL	2FAL	2ACF	5M2F	Total	SDMyers Notes / Recommendations
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Calculated DP

N/A

Est. Insulation Life Remaining

N/A



Mechanical Data

Nameplate Info

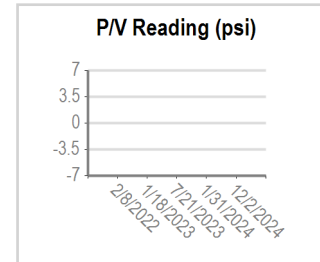
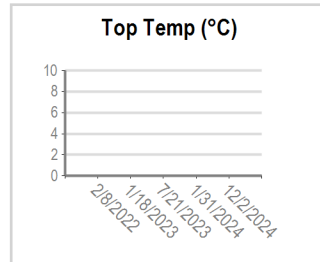
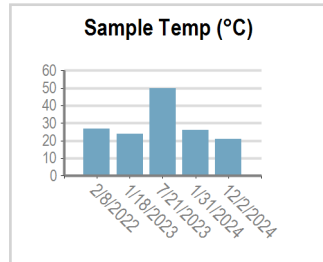
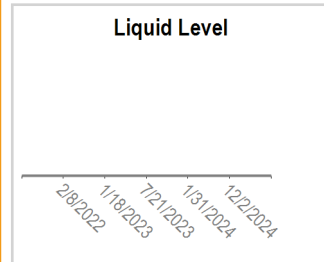
Manufacturer: REINHAUSEN
Mfg Date:
Serial No.: 1455068
kVA:
High Voltage:
Low Voltage: 13,800
Weight (lb):

Equipment Type: VACUUM LTC
Transformer Class:
Impedance %:
Phase / Cycle:
Liquid Type: OIL
Gallons: 467
Other Access:

Radiators:
Fans:
Water Cooled:
Oil Pumps:
Top FPV (inch): 0.50 valve
Bottom FPV (inch): 1.00 valve
Insulation Type:

Conservator Tank: No
LTC Compartment:
Bushing Location:
Breather: FREE
Hose Length (ft):
Service Online:
Power Available:

Visual Inspection Data



Draw Date	Liquid Level	Sample Temp (°C)	Top Temp (°C)	P/V (psi)	Paint	Leaks
02 Dec 2024	NORMAL ✓	21 -	-	-	GOOD ✓	NONE -
31 Jan 2024	NORMAL ✓	26 -	-	-	GOOD ✓	NONE ✓
21 Jul 2023 AR	-	50 -	-	-	-	NONE -
18 Jan 2023	NORMAL ✓	24 -	-	-	GOOD ✓	NONE ✓
08 Feb 2022	NORMAL ✓	27 -	-	-	GOOD ✓	NONE ✓

Field Service Data

Date	Service
01 May 2015 OL	LTC MAINTENANCE
01 May 2015 OL	LEAK REPAIR
01 Nov 2013	LTC MAINTENANCE

Misc. Information

Date	Additional Information
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Misc Comments

Date	Comments:
22 May 2015	5-21-15 Repaired LTC leak and hot process oil.
22 May 2015	1-1-14 UVT replaced with Vacuum UVT-LTX

Footnotes

NM - These results were obtained using a method that does not comply with our standard test method.
AR - Test results are based upon information provided by and the sample as received from the customer
HD - Data provided by the customer

OL - Field Service performed by outside source
OT - These test results were obtained by a sub-contracted laboratory that is accredited to ISO 17025 for these tests.
② - Test results for this method were generated at the SDMyers' Sacramento, CA location. ISO accreditation at this location pending.

-- End of test report --