

To : Devin Thomas
Address : Refrigerant Service Inc.
105 Akerley Blvd. Unit "D"
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From : Judy
Direct Line:
PTC ID. : 99021
Project Number : R003
Reference : R003-99

Customer Reference : 57011299
Date Received : 8 March 1999

57011299

Cylinder Number : SL10575
Date Report : 9 March 1999

CERTIFICATION ANALYSIS OF R-22

| <u>PARAMETER</u> | <u>RESULTS</u> | <u>SPECS.</u> |
|---|----------------|---------------|
| Acidity (ppm by weight) | ≤ 1.0 | ≤ 1.0 |
| Boiling Point (°C @ 1.00 atm) | -41.2 | -40.8 |
| Boiling Range (°C for 5%-85% Vol.dist.) | 0.1 | ≤ 0.3 |
| Chloride (Pass/Fail) | Pass | Pass |
| High Boiling Residue (% by volume) | ≤ 0.01 | ≤ 0.01 |
| Non-condensable (% by volume) | 0.3 | ≤ 1.5 |
| Other Refrigerants (% by weight) | 0.21* | ≤ 0.50 |
| Particulates/Solids (pass/fail) | Pass | Pass |
| Water Content (ppm by weight) | 2 | ≤ 10 |

* Major Impurities: R115-0.07% (w/w), R12-0.07% (w/w), R143a-0.04% (w/w)



REFRIGERANT SERVICES INC.

105 Akerley Blvd., Unit D Dartmouth, Nova Scotia B3B 1R7

HOW TO AVOID CROSS-CONTAMINATION WHEN RECOVERING

1. Always use recovery cylinders that are dedicated to one refrigerant only. (Oil will build up in the cylinder and this oil will absorb refrigerant and hold it even under a deep vacuum. The oil will eventually release the refrigerant possibly causing cross contamination.)
2. Always empty your recovery cylinder in the inverted position through the vapor connection. This will allow the oil and other contaminants to be removed with the refrigerant.
3. Always change the oil in your recovery compressor and evacuate the recovery unit and hoses before recovering a different refrigerant. (The oil absorbs refrigerant and then will release it causing cross contamination.)
4. Always ensure that the recovery cylinders are properly identified as to the type of refrigerant that is stored inside.
5. Remember that electrical burn-outs inside a refrigeration or air conditioning system may cause decomposition of the refrigerants resulting in cross contamination. It would be wise to keep recovered refrigerant from burn-outs in a separate recovery cylinder.

The acceptable maximum amount of cross contamination of other refrigerants by weight is 0.5%. Example: in 100 lbs of R-12 the allowable limit is 1/2 of one pound of other refrigerants. However keep in mind that even new refrigerant could have close to this amount already and even a very small amount of cross contamination as a result of poor recovery practices could render the refrigerant unacceptable.

E-mail: refrigerant@ns.sympatico.ca

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