

National Refrigerants, Inc.

Analytical Laboratory

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Refrigerant Analysis Report

Customer:	Johnson Controls	P.O. No.:	NRIHP
Address:	812 First State Blvd Wilmington DE 19804	Refrigerant Type:	R-134a
Contact:	Kevin Fraze	Job Location:	DuPont- Experimental
Telephone:	610-637-8063	System S/N:	626904
Fax:	kevin.m.fraze@jci.com	Sample ID#:	Chiller # 7
		Lab. Reference:	080414-20
		Date Rec.:	4-14-08

Analysis

Sample Results

ARI-700

Spec.

Identification	By Gas Chromatography	R-134a	
Moisture	parts per million by weight	4	10 Max.(1)
High Boiling Residue	per cent by volume	0.33	0.01 Max.
Acidity	parts per million (as HCl)	<0.3	1 Max.
Non-Condensable Gas	per cent by volume	--	1.5 Max.
Chloride	pass/fail	Pass	pass
Purity	% by weight (Gas Chromatography)	99.92	99.50 Min.
Particulates	pass/fail	Pass	pass
Other			

(1) 20 ppm for R-11, 113, 123.

Comments: The sample shows good quality in-service R-134a and indicates normal system performance. The high boiling residue (0.33%) is a clear light yellow oil, most certainly system oil. Resample at next scheduled maintenance interval.

Laboratory Supervisor: _____

Date: 4/16/2008

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