



NATIONAL TRANSPORTATION SAFETY BOARD

Office of Aviation Safety
Washington, D.C. 20594

October 21, 2014

AIRWORTHINESS

Group Chairman's Factual Report

DCA13FA148

**Attachment 1 – N169GL Hydraulic fluid Analysis Report
(1 page)**


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HYDRAULIC ANALYSIS RESULTS

GREAT LAKES
ATTN: STEVE VOSS
1022 AIRPORT PARKWAY
CHEYENNE WY 82001
United States

Control Number:9-16-12T
Tail Number:N169GL
Aircraft Type:1900D
Fluid Type:5606
Sample Date:9/7/2013
System Number:
Serial Number:
Air Frame Hours:0
Fluid Hours:0

VISCOSITY @ 40 DEG. C (cSt): 13.52
TOTAL ACID NUMBER (mgKOH/g):0.11
WATER KARL FISCHER (PPM wt.):61.3

PARTICLE SIZE DIST. (MICRONS/100 mL)
MICRONS 5-15: 545200
MICRONS 15-25: 308
MICRONS 25-50: 156
MICRONS 50-100: 12
MICRONS 100+: 0
NAS CLASS: 12

WEAR METAL ANALYSIS (PPM)
ALUMINUM: 1.4
IRON: <0.1
COPPER: <0.1
NICKEL: <0.1
CHROMIUM: <0.1
SILVER: <0.1
LEAD: <0.1
SILICON: 2.7
MAGNESIUM: <0.1

ELEMENTAL ANALYSIS (PPM)**REMARKS:**

PO#A27838. PARTICLE COUNT APPEARS HIGH AT NAS CLASS 12. ALL OTHER SAMPLE TEST RESULTS APPEAR NORMAL.

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