DOCKET NO.: SA-515 EXHIBIT NO. 110

## NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C.

## **ATTACHMENT 24**

## DELTA AIR LINES ENGINE RECORDS, HUB N1 COMP FRONT (JTD-219)

(3 PAGES)

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|--|------------|---------------------|------------|--------------------------------------|-----------------|--|--|-------------------------------------|----------------------|---|---|---|---|--|-----------------------|--------------|--------------------|
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|  | hei        | AL PACH             | EHOM(E:    | PAR                                  | PART BERAL MC T |  |  | IAN THE                             |                      |   |   |   |   |  |                       |              |                    |
|  | -39        | FIRST N             |            | AU                                   | THORITY         | DETY CHE                               |  |                                     |                      |   | DATE WANTED FART TAG                        |   |   |  |                       |              |                    |
|  |            | 272A/ 172A/         |            |                                      |                 | FOC IN SPA                             | OP                                     | 7                                   |                      | ARI 113.<br>X0501-01  |   | NO. PCI                                 | -                                       | <u></u>                                  |                       |              |                    |
|  |            | BEHÖVE              | D PAI      | W/C                                  |                 | MODIFIED PIN                           | A COLOR                                | WE CO                               | HO                   | a accour  | -   | WA                                      | 7                                       |  |                       |              |                    |
| I                                      | er ç       | odna<br>10          |            |                                      |                 |  | ************************************** |                                     |                      | E6<br>marketinger   | ant is engineeral.                          | <u> </u>                                | 4-                                      | TAXO                                     | HE HO.                |              | ary.               |
|  |            | юют но.<br>72993580 |            | HUB, NI                              | СОМР            | FRONT (J                               | T8D-219                                |                                     | <br>(129)            | با مبس <i>ه</i>   | ب <sub>ى</sub> <del>دەك</del> ىلىرىن كىرىد- | LCA                                     | RD 005                                  | ROI                                      |                       |              | 9 <del>4</del> 49. |
| -                                      | Fed        | OUCT NO.            |            | Discover now                         |                 |  |  |                                     |                      |   |   |   |   |  |                       |              |                    |
|  |            | 72993580            | _          | HUB. NI                              | COMP :          | FRONT (F                               | T8D-219                                | 2) (                                | 329)                 |   |   | ÇA                                      | RD 009                                  |  | Mey. Date<br>06-23-95 |              | 19 HO.             |
| ļ                                      |            | SAZYJ.<br>PROMIT    | - B        | <u> </u>                             |                 | 81, OH                                 |  |                                     | ·                    | 1. 83   | 1115/CH                                     |   | 15                                      | 64 년 기 년 기 기 기 기 기 기 기 기 기 기 기 기 기 기 기 기 |                       | Part Yas     | •                  |
|  | -          | ONG. SHOP           |            | TERM                                 |                 | l LOC IN SHE                           |  | 2.5                                 | <u> </u>             |   | SETKAW BY                                   |   | ART TAG                                 | +Q.                                      |                       |              |                    |
|  | <b> </b> - | 272A/               | 0.04       | 272/                                 |                 | 272                                    | •                                      | 4243-314                            | 500                  | ARTHA<br>0501-01  |   | MO FCE                                  | 70                                      | 297                                      |                       |              |                    |
| ŀ                                      | L          |                     |            |                                      |                 | MODARED PA                             | 276/400 (1988)                         | Wo                                  |                      | O ACCOUNT   |   | W/C                                     |   | WILL                                     | 616                   | 0            | OT4.               |
|  | ALT        | 156                 | BV.        | OR REF.                              | 17              | 621                                    | 7.                                     | <b>ESCRIPT</b>                      | OH OF WO             | XAK //  | 130/  | 7500                                    | COM                                     | LETION<br>ATE                            | MECH                  | L NECK       | DUSP.              |
| _                                      | 1          |                     |            | ]                                    | MA              | TERIAL:                                | TITANI                                 | UM                                  |                      |   |   |   |   |  |                       |              | 1                  |
|  | 2          |                     |            |                                      |                 | <del></del>                            |  |                                     |                      |   |   | -4-7-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4- | witness - A-F-                          | <del> </del>                             |                       | <del> </del> | 2                  |
| •                                      | 3          | 2/2/                | _          | 72-33-00                             | Cic             | an Ivr PS                              | 0/YL1.1                                | andra and a                         | and and an and an an | 4 de 200 de | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~      | منعادی سید<br>14 م از از از             |   |  |                       | <del> </del> |                    |
|  | 3          | ?£59g               |            | CLEAN OI                             | i įPias         | an per P.S.<br>nic media i<br>gallant. | blast per                              | P.S. 9                              | 00-1-1,              | No. 21  | yerk en<br>Is necess                        | eary to r                               | cmove<br>6002 (I)                       | 1% 75                                    |                       | PAH          | 9                  |
| L.                                     | 4          |                     |            | } .                                  | ſ               |  |  |                                     |                      |   |   | *                                       |   |  |                       |              | 4                  |
|  | 5          | 42A                 |            | 72-33-00<br>INSP 01                  | FPI             | per P.S. 9                             | 00-6-3, 1                              | No. 02                              | (Class               | 1).   |   | المستسيط                                | 6005 (1)                                | 16/22                                    | 45                    |              | 7 Hs               |
|  | 6          |                     |            |                                      |                 |  |  |                                     |                      | <del></del>   |   |   | <del></del>                             | 1  |                       |              | 17 6               |
|  | 7          | 544A                |            | 72-33-31<br>INSP 01                  |                 |  | inspect and route.                     |                                     |                      |   |   | (                                       | 5006 (1)                                | 128/9                                    |                       | you          | 7                  |
| •                                      | 8          |                     |            | ļ                                    | 120             | TE: Rout                               | e printo                               | out with                            | I JPC                | معبير وربي حفظتي  |   | <del></del>                             |   |  |                       |              |                    |
| -                                      |            | 272A                |            | 72-33-34                             | <del>- </del> - |  | -                                      |                                     |                      |   |   | ·                                       | ·                                       | · p                                      |                       |              | 8                  |
|  |            |                     |            | INSP 01                              | - Jasp          | ect and ro                             | ule.<br>                               | hab. 2n. — s 4 <sub>316</sub> gray. | <b></b>              |   |   | •                                       | 6 <b>0</b> 01 (1)                       | 14/2./6                                  |                       | MV           | 9                  |
| _                                      | 10         | MA                  | 11         | 548 A                                | 14.             | nid 1234                               | حرث <u>ا</u>                           |                                     | Δ                    |   | <b>.</b>                                    |   |   |  |                       |              | 10                 |
| •                                      | ]          | 3 2                 | 1          | 72-33-31<br>REP 02                   | Rou             | (C to obtain                           | io-facilit                             | ty for shotpeen. FTRY               |                      |   |   |   |   | -  | <del></del>           | L            | 11                 |
|  | 12         |                     | 74         |                                      |                 |  | <del>.</del>                           | <del></del>                         | ·                    |   | <del></del>                                 | <del></del>                             | ·                                       |  | }                     | <del> </del> | ļ <u>.</u>         |
| •                                      | 13         | 77/A                | The second | 5-15 <b>8</b><br>22-33-31<br>INSP 01 |                 | col disk æf                            |  |                                     |                      | - 10 A  |   |   | *************************************** |  |                       | <u> </u>     | 12                 |
| -                                      | 14         | (=-                 | \$         |                                      |                 |  |  |                                     |                      | -   | ****  | ul                                      | S913 (I)                                |  |                       | L            | 13                 |
| -                                      |            | F5                  | 12         | REROU                                |                 |  |  |                                     |                      | JTE NO  |   | <u>_</u>                                |   | {  |                       |              | 14                 |
| _                                      |            | 390                 | 3          | 72-33-31<br>REP 02                   | App             | ly antigalls                           | int comp                               | Downd I                             | C3100                | Α,  |   | (                                       | 5000 (1)                                | 19/11                                    | 775                   |              | 15                 |
|  | 16         |                     |            |                                      |                 |  |  | إيساست هدمة                         |                      | **************************************  |   | A, 111, Mary Mary 1984                  |   |  | ļ                     | 1            | 16                 |
| -                                      |            |                     |            |                                      |                 |  |  |                                     |                      |   |   |   |   | t .                                      |                       |              | F                  |



FROM DELTA ENGINE RECORDS

TUE 63. 02197 15:47 / NO. 3061635581 P. 2

| MENT/AKE    | <br>         | · <del></del> | <del></del> - | <br>        |                  |                           |   |          | <del></del> | <br> |
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| ROUTE TO    | <u> </u>     | T             |               | <br>        | April 27 Act 100 |                           | r | <u> </u> |             |      |
| ROUTE       |              |               |               | <br>        |                  |                           |   |          |             |      |
| ROUTE<br>TO | <br>         |               |               | 4 M T TRANS |                  |                           |   |          |             |      |
| FOUTE<br>01 | <br><u>l</u> |               |               |             |                  |                           |   |          |             |      |

|     | ouct No.<br>72993580 | 1   | HUB, NI C           | OMP FRONT (JT8D-219) (J29)   | CARD 00580                             | 1A 27       | d 8HOP<br>2A/ | n.<br>Od | -23-95 |
|-----|----------------------|-----|---------------------|--|--|-------------|---------------|----------|--------|
| ALT | FITE<br>70           | RTE | AUTH<br>OR REF.     | DESCRIPTION OF WORK  | COLUMN BA                              | ETION<br>TE | MECH          | L WECH   | 5-GP,  |
| 17  | 300                  |     | 72-33-31<br>REP 05  | Install scal on hub. Indicate hub and seal type Hub new - seal new Hub old - seal new Hub new - seal old | 6003                                   |             | M             |          | 17     |
| 18  |                      |     |                     | 7.10.11.00   |  | 4- +        |               |          | 18     |
| 19  | 300                  |     | 72-33-31<br>REP 05  | Drill seal for rivers.   | 6004                                   |             | М             |          | 19     |
| 20  |                      |     |                     |  |  |             |               |          | 20     |
| 21  | 272                  |     | 72-33-31<br>INSP 01 | Final Inspect.   | 6914 (I)                               | 11/1/1/15   |               | 141      | 21     |
| 22  |                      | 100 |                     |  | ************************************** |             |               |          | 22     |

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| PR   |         |                        | FCORDS<br>DESCRIPTE<br>ENGINE |      | HA SERIAL  | NO           |             | TPA                                     | AT SERIA         | i ko       | VS R  | – <del>–                                   </del> | PART          | IME      |
|--|---------|------------------------|-------------------------------|------|--|--------------|-------------|---|------------------|------------|---|---|---------------|----------|
| ALM!   | NATED I |                        | C110001                       |      | INST ON  | DATE         | ·           | IE WANTED                               |                  | ART TAG NO | TAUTRO  | DRIT!   |               |          |
|  | 40HZ    |                        | TERM S                        | L    | LOC IN SHO   |              |             | PART NO                                 |                  |            | TRACKING                                      |   |               | 70       |
| <u></u>                                      |         |                        |                               |      |  |              | د.سوده هم خ |   | de road          |            | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,       |   | /             | , -      |
|  | EMOVE   | ) P/N                  | WIC                           |      | ODIFIED PIN  |              | ic          | MOD ACCOM                               |                  | NO W/C     |   | 2   | 067           | ስ        |
| ALT.   |         |                        | -                             |      | 1  | ~            | L           |   |                  |            |   | Ç   | 001           | _        |
| TO   |         |                        |                               |      |  |              | L           | 1                                       |                  | ISKO O     | 10  |   |               |          |
| 476  | TO OI   | BY                     | AUTH<br>OR REF                |      |  | OESC         | RIPTION     | OF WORK                                 |                  |            | ACT OUT                                       | MECH  | L MECH        | IN.      |
| , }  |         | 1                      |                               |      |  |              |             | .1.146 4                                | M M 41.          | . <₹`a     | ۱ ا   |   | }             |          |
|  |         |                        |                               | Het  | <del>cule No.</del><br>  R3297   | IPC          | HO TO       | 1//15 1<br>Type                         | ⊬G-PK<br>Remotif | 1//0       | ,   |   |               | <u> </u> |
| 3  |         |                        |                               | F5   | The second name of the last of | Line         |             | - F                                     | 411              |            | *****   | <b>_</b>  | <del> </del>  | ╀        |
| 3  |         |                        |                               | Ren  | oute Flag  | Refe         | enced       | On JPC                                  |                  |            |   |   |               | <u>L</u> |
|  | 1       |                        |                               |      |  |              |             |   | ·                | 65611      | } :   |   | 1             |          |
|  |         | ىلى <u>ىسى</u><br>د نى | 2                             |      | 111-0  |              |             | \$ 50 P.A.                              | مد .نــ.<br>راهم |            |   | ·   |               |          |
| -  | VH      | <del>}</del>           | 43-3                          | 116  | I-NGO  | petatic<br>- | <del></del> | ille e                                  | ( <del></del>    | T COPU A   |   | M   | T             | Γ        |
| 5  | 7.5     |                        | Ren                           |      | Moute  | ; F          | • P         | वर्ग भद                                 | -                | FFAY       | <u>.   </u>                                   |   | ļ             | L        |
|  |         | 9                      | 4- 2- /                       |      |  |              | 2           |   |                  |            | 1   |   |               | ١        |
| -  | U/A     | -/4                    | 72-33                         | 31   | .ALO.T   |              | 2CL_        |   | SPAIN.           |            |   |   | -             | +        |
| <u>,                                    </u> | 774     | 可                      | Zuce                          |      | 424E   | D15K         | 7A .        | rea R                                   | 2 PART IN        | 6913       | <u>z)                                    </u> |   | ļ             | 1        |
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| 9  |         |                        |                               |      |  |              |             | Mar                                     |                  |            |   |   |               | ļ.,      |
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| *  |         | ·                      |                               | R    | route Na.  | 2            |             | 12/12 -                                 |                  | 3          | 10/1  | <del> </del>                                      | +             | +        |
| 11   |         |                        | -                             | \$-1 | B277   | JBC          |             | Type                                    | CNe<br>Rom       | 200        |   |   |               | 1        |
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| <u>12  </u>                                  |         |                        |                               | 10   | Tell anor  | Helete       |             | n 180                                   |                  | 81013      |   | <u></u>   | <del></del>   |          |
| ,-<br>                                       | ·       |                        |                               | *    |  |              |             | - F010 -                                |                  |            |   | · <del>r</del>                                    | <del>-,</del> |          |
| ., !   | 20      | 1.                     | 72-33                         | 3/   | 36-1   | 0            |             | As Ro                                   | . ^              | 2.4        | (1.7.4)                                       | 000   | _[            |          |
| - 2  | ibis    |                        |                               | -    | VIOT.  | rce.         | L           | ero As                                  | <u> </u>         | P.J.       |   | <del>  ``</del>                                   | 4             | +        |
| 14   |         |                        | <u></u>                       |      | P.S.   | 900          | 4           | 1                                       |                  |            |   |   |               | 1        |
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| 15   |         |                        |                               |      | ·  |              |             |   |                  |            |   | -   | <del></del>   | 十        |
| 16   |         |                        |                               |      |  |              |             |   |                  |            |   |   |               |          |
| . !  |         |                        |                               |      |  |              |             |   |                  |            |   |   |               | T        |
| 22   |         |                        |                               |      |  |              |             | *******                                 | ,4ª              | ·          |   | +   |               | +        |
| 18   |         |                        |                               |      |  |              |             |   |                  |            |   |   |               |          |
|  |         |                        |                               | 7    |  |              |             |   |                  | 44         |   | 1   | 7             | 7        |