

441316-12-104

NOTICE: THIS FORM, DULY UPDATED, MUST FOLLOW THE ASSY





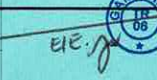
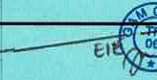
ATA Chapter

95

| | | | | | |
|--------------------------------------|--------------------------------|-------------------------|--|-------------------------------------|---|
| DESCRIPTION (1) HOIST CORE | P/N (2) 3G2591V01532 | S/N (3) 40542 | MANUFACTURER NAME (4) GOODRICH | ASSEMBLY DATE (5) 05/2017 | RETIREMENT LIFE / TIME LIMITS (6) 10 Y OH I/D |
| | P/N (7) | S/N (8) | MANUFACTURER NAME (9) | ASSEMBLY DATE (10) | RETIREMENT LIFE / TIME LIMITS (11) 111 hoist OH |
| | P/N (7) | S/N (8) | MANUFACTURER NAME (9) | ASSEMBLY DATE (10) | RETIREMENT LIFE / TIME LIMITS (11) |

NOTE

ASSEMBLY HISTORICAL RECORD

| INSTALLATION | | | | | | REMOVAL | | | | | | | |
|--------------|-------------------------|-------------------------|----------------------------|-------------------------|---|--|----------------------------|-------------------------|--------------------------------------|-----------------------------|-------------------|------------------------|--|
| DATE (12) | A/C | | ASSY | | | ORGANIZATION, STAMP AND SIGNATURE (18) | DATE (19) | A/C | | ASSY | | REASON OF REMOVAL (24) | ORGANIZATION, STAMP AND SIGNATURE (25) |
| | R. MARKS (13) | TOTAL FLIGHT HOURS (15) | TOTAL HOURS (16) | TIME SINCE OH (17) | TOTAL FLIGHT HOURS (20) | | | ACTUAL TOTAL HOURS (21) | TOTAL HOURS WITH PENALTY FACTOR (22) | TIME SINCE OH (23) | | | |
| | | TOTAL LANDINGS (15) | TOTAL LANDINGS (20) | LANDS SINCE OH (17) | ACTUAL TOTAL LANDINGS (20) | | | LANDINGS SINCE OH (23) | | | | | |
| S/N (14) | TOTAL LIFTS/CYCLES (15) | TOTAL LIFTS/CYCLES (16) | LIFTS/CYCLES SINCE OH (17) | TOTAL LIFTS/CYCLES (20) | ACTUAL TOTAL LIFTS/CYCLES (21) | TOTAL LANDS WITH PENALTY FACTOR (22) | LIFTS/CYCLES SINCE OH (23) | | | | | | |
| 06/2018 | | 04:20 | 00.00 | NEW | Leonardo Helicopters | 30/10/2019 | 44:05 | 39:45 | NEW | REMOVED BY OPERATOR REQUEST | GAM | | |
| | 31809 | UNKNOWN | 0.00 | |  | | 69 | 4:20 | | | | | |
| | | - | 0 | | | | | - | 4 | | | | |
| 6/11/2019 | 9m-PMD | 44:05 | 39:45 | NEW | | GAM | 8/11/2019 | 44:05 | 39:45 | NEW | OPERATION REQUEST | GAM | |
| | 31809 | 69 | 4:20 | |  | | 69 | 4:20 | | | | | |
| | | - | 4 | | | | | - | 4 | | | | |
| 31/7/2022 | 9m-PMA | 1469:50 | 37:45 | - | | EIE | 14/1/2022 | 1255:50 | 58:40 | NEW | OPERATION REQUEST | EIE | |
| | 31807 | 2416 | 4:20 | - |  | (umc-PMA-22-002) | 2045 | 181 | | | | | |
| | | - | 4 | - | | | | | | | | | |
| 22/12/2021 | 9m-PMA | 1236:55 | 39:45 | NEW | | EIE | 25/2/2022 | 1306:45 | 101:25 | NEW | OPERATION REQUEST | EIE | |
| | 31809 | 2002 | 4:20 | EIE |  | (umc-PMA-22-013) | 2138 | 262 | | | | | |
| | | | | | | | | | | | | | |
| 20/1/2022 | 9m-PMA | 1264:00 | 58:40 | NEW | | EIE | 14/4/2022 | 1356:00 | | | OPERATION REQUEST | EIE | |
| | 31807 | 2057 | 181 | |  | (umc-PMA-22-021) | 2232 | | | | | | |
| | | | | | | | | | | | | | |
| 11/4/2022 | 9m PMA | 1349:20 | | | | EIE | 14/4/2022 | 1396:50 | | | | | |
| | 31807 | 2229 | | |  | (umc-PMA-22-024) | 2278 | | | | | | |
| | | | | | | | | | | | | | |
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LOG CARD

NOTICE: THIS FORM, DULY UPDATED, MUST FOLLOW THE ASSY

Section 1

ATA Chapter **95**

| | | | | | |
|--------------------------------------|--------------------------------|-------------------------|--|---|---|
| DESCRIPTION (1) HOIST CORE | P/N (2) 3G2591V01532 | S/N (3) 40542 | MANUFACTURER NAME (4) GOODRICH | ASSEMBLY/MANUFACTURING DATE (5) 05/2017 | RETIREMENT LIFE / TIME LIMITS (6) 10 Y OH I/D |
| | P/N (7) | S/N (8) | MANUFACTURER NAME (9) | DATE OF CHANGE (10) | RETIREMENT LIFE / TIME LIMITS (11) 111 hoist OH |
| | P/N (7) | S/N (8) | MANUFACTURER NAME (9) | DATE OF CHANGE (10) | RETIREMENT LIFE / TIME LIMITS (11) |

NOTES
CONTINUED FROM ORIGINAL LOGCARD PAG.1 OF 4

ASSEMBLY HISTORICAL RECORD




| INSTALLATION | | | | | | REMOVAL | | | | | | | |
|--------------------------------|---------------|-------------------------|-------------------------|----------------------------|-------------------------|--|--------------------------------|----------------------------|---|------------------------|-----------------------|-------------------------|---|
| DATE (12) | A/C | | ASSY | | | ORGANIZATION, STAMP AND SIGNATURE (18) | DATE (19) | A/C | | ASSY | | REASON FOR REMOVAL (24) | ORGANIZATION, STAMP, AND SIGNATURE (25) |
| | R. MARKS (13) | TOTAL FLIGHT HOURS (15) | TOTAL HOURS (16) | TIME SINCE OH (17) | TOTAL FLIGHT HOURS (20) | | | ACTUAL TOTAL HOURS (21) | TOTAL HOURS WITH PENALTY FACTOR (22) | TIME SINCE OH (23) | | | |
| | S/N (14) | TOTAL LANDINGS (15) | TOTAL LANDINGS (16) | LANDINGS SINCE OH (17) | TOTAL LANDINGS (20) | | | ACTUAL TOTAL LANDINGS (21) | TOTAL LANDINGS WITH PENALTY FACTOR (22) | LANDINGS SINCE OH (23) | | | |
| | | TOTAL LIFTS/CYCLES (15) | TOTAL LIFTS/CYCLES (16) | LIFTS/CYCLES SINCE OH (17) | | TOTAL LIFTS/CYCLES (20) | ACTUAL TOTAL LIFTS/CYCLES (21) | | LIFTS/CYCLES SINCE OH (23) | | | | |
| 22/12/2021 (UMC-PMA-21-050) | 9M-PMA | 1236:55 | 39:45 | NEW | | 14/1/2022 (UMC-PMA-22-002) | 1255:50 | 58:40 | - | NEW | OPERATION REQUIREMENT | | |
| | 31807 | 2002 | - | NEW | | | 2045 | - | - | NEW | | | |
| | | - | - | NEW | | | - | - | - | - | | | |
| 20/1/2022 (UMC-PMA-22-006) | 9M-PMA | 1264:00 | 58:40 | NEW | | 25/2/2022 (UMC-PMA-22-013) | 1306:45 | 101:25 | - | NEW | OPERATION REQUIREMENT | | |
| | 31807 | 2057 | - | NEW | | | 2138 | - | - | NEW | | | |
| | | - | - | - | | | - | - | - | - | | | |
| 11/4/2022 (9M-PMA-10237) | 9M-PMA | 1349:20 | 101:25 | NEW | | 14/4/2022 (UMC-PMA-22-021) | 1356:00 | 108:05 | - | NEW | OPERATION REQUIREMENT | | |
| | 31807 | 2229 | 10.7 | NEW | | | 2232 | 10.7 | - | NEW | | | |
| | | - | - | - | | | - | - | - | - | | | |
| 17/5/2022 (UMC-PMA-22-023) | 9M-PMA | 1393:45 | 108:05 | NEW | | 20/5/2022 (UMC-PMA-22-024) | 1396:50 | 111:10 | - | NEW | OPERATION REQUIREMENT | | |
| | 31807 | 2274 | 10.7 | NEW | | | 2278 | 10.7 | - | NEW | | | |
| | | - | - | - | | | - | - | - | - | | | |
| 31/7/2022 (9M-PMA-12176) | 9M-PMA | 1469:50 | 111:10 | NEW | | | | | | | | | |
| | 31807 | 2416 | 11.25 | NE | | | | | | | | | |
| | | - | - | - | | | | | | | | | |
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NOTICE: THIS FORM, DULY UPDATED, MUST FOLLOW THE ASSY

ATA Chapter _____

95

COMPONENTS INSTALLED ON ASSY

| ASSY P/N (26) | | 3G2591V01532 | | | | ASSY S/N (27) | | 40542 | | | |
|---------------------------|----------------------|------------------------------------|-------------------------|----------------------------|------------------------------|---|-------------------------|----------------------------|--|------------------------------|--------------------------|
| COMPONENT DATA | | | INSTALLATION | | | | REMOVAL | | | | |
| DESCRIPTION (28) | P/N (29) | MANUFACTURING DATE (31) | ASSY TOTAL HOURS (33) | COMPONENT TOTAL HOURS (34) | COMPONENT TIME SINCE OH (35) | DATE (36) | ASSY TOTAL HOURS (38) | COMPONENT TOTAL HOURS (39) | COMPONENT TOTAL HOURS WITH PENALTY FACTOR (40) | COMPONENT TIME SINCE OH (41) | DATE (42) |
| | S/N (30) | RETIREMENT LIFE / TIME LIMITS (32) | TOTAL LANDINGS (33) | TOTAL LANDINGS (34) | LANDINGS SINCE OH (35) | STAMP AND SIGNATURE (37) | TOTAL LANDINGS (38) | TOTAL LANDINGS (39) | TOTAL LANDINGS WITH PENALTY FACTOR (40) | LANDINGS SINCE OH (41) | STAMP AND SIGNATURE (43) |
| | | | TOTAL LIFTS/CYCLES (33) | TOTAL LIFTS/CYCLES (34) | LIFTS/CYCLES SINCE OH (35) | | TOTAL LIFTS/CYCLES (38) | TOTAL LIFTS/CYCLES (39) | TOTAL LIFTS/CYCLES WITH PENALTY FACTOR (40) | LIFTS/CYCLES SINCE OH (41) | |
| Cartridge | 42315-281 | 05/2017 | 00.00 | 00.00 | NEW | 06/2018 | | | | | |
| | 9213 | 5 Y M/D | | | |  | | | | | |
| External Hoist Cable Assy | 42325-298 | 05/2017 | 00.00 | 00.00 | NEW | 06/2018 | | | | | |
| | == | 1500 lifts 4 Y I/D | | | |  | | | | | |
| <i>Clutch Assy</i> | <i>44314-398-101</i> | <i>40 Months</i> | <i>010.0Hrs</i> | <i>00:00</i> | <i>NEW</i> | <i>21/04/21</i> | | | | | |
| | <i>L92-176</i> | <i>2600 LIFTS</i> | | | |  | | | | | |
| | | | | | | | | | | | |
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LOG CARD

NOTICE: THIS FORM, DULY UPDATED, MUST FOLLOW THE ASSY

Section 3

ATA Chapter 95

ASSEMBLY ACTIVITY HISTORY

ASSY P/N (44) 3G2591V01532

ASSY S/N (45) 40542

| DATE (46) | TOTAL HOURS (47) | TASKS (48) | ACTIVITIES (49) | ORGANIZATION (50) | STAMP AND SIGNATURE (51) |
|------------|-------------------------|------------|---|-------------------|--------------------------|
| | TOTAL LANDINGS (47) | | | | |
| | TOTAL LIFTS/CYCLES (47) | | | | |
| 21/04/2021 | 010.0 HRS. | REPAIRED | REPAIRED ON WO 44115797 IAW CMM 25-60-06-3, CLUTCH SET: 1396, UNTD PASSED APP, TSN: 010.0 HOURS | Goodrich | |
| | | | | | |
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AIRWORTHINESS DIRECTIVES AND BULLETINS COMPLIANCE

ASSY P/N (52)








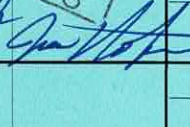
3G2591V01532

ASSY S/N (53)

40542

AIRWORTHINESS DIRECTIVE AND MANDATORY BULLETINS

OPTIONAL BULLETINS

| AIRWORTHINESS DIRECTIVE/MANDATORY BULLETIN NUMBER (54) | | | | ASSY TOTAL HOURS (57) | ORGANIZATION (58) | STAMP AND SIGNATURE (59) | OPTIONAL BULLETIN NUMBER (54) | | ASSY TOTAL HOURS (57) | ORGANIZATION (58) | STAMP AND SIGNATURE (59) |
|--|-------------------------|--------------------------|------------------------------|-----------------------|-------------------|---|-------------------------------|-------------------------|--------------------------|------------------------------|--|
| ISSUE / REVISION (55) | DATE OF COMPLIANCE (56) | ASSY TOTAL LANDINGS (57) | ASSY TOTAL LIFTS/CYCLES (57) | | | | ISSUE / REVISION (55) | DATE OF COMPLIANCE (56) | ASSY TOTAL LANDINGS (57) | ASSY TOTAL LIFTS/CYCLES (57) | |
| AD No. 2015 - 0226 R4 ^{Perms} (10) | | | | | | | SIL-2019-05 | | 010.0 Hrs | | |
| R4 | 30-9-2019 | | 4 | | GAM |  | R1 | 21/10/19 | 21/04/2021 | | Goodrich  |
| AD 2015-0226 | | 010.0 Hrs. | | | | | SIL-2019-02 | | 010.0 Hrs | | |
| R5 | 30/07/20 | 21-04-2021 | | | Goodrich |  | R1 | 21/03/19 | 21/04/2021 | | Goodrich  |
| ASB44301-10-18 | | 010.0 Hrs | | | | | SIL-2018-03 | | 010.0 Hrs | | |
| R6 | 10/10/16 | 21-04-2021 | | | Goodrich |  | R1 | 03/04/18 | 21/04/2021 | | Goodrich  |
| SB44316-600-3-03 | | 010.0 Hrs | | | | | | | | | |
| R2 | 23/01/18 | 21-04-2021 | | | Goodrich |  | | | | | |
| SB44316-602-101-02 | | 010.0 Hrs | | | | | | | | | |
| R2 | 31/01/20 | 21-04-2021 | | | Goodrich |  | | | | | |
| | | | | | | | | | | | |
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SERVICEABLE



| | |
|--|-------------------|
| DESCRIPTION : HOIST CORE ASSY | QTY : 1 |
| PART NO. : 362591V01532 | |
| SERIAL NO. : 40542 | |
| STATUS: OVH / REPAIR / MOD / CAL (TEST) / NEW / CONSUMABLE / GSE | |
| TSN : - | TSO : - |
| SHELF DUE / EXP DATE : - | |
| INSPECTED BY : <i>WONG K. SICH</i> | GIN / REF : |
| SIGN : <i>[Signature]</i> | DATE : 31/07/2022 |
| | ex 9m - yma |

GAM/E-005 Rev.1


CERTIFIED TRUE COPY

| | | | | | | |
|---|--------------------------|--|---|--------------------|--|--|
| 1. Approving Civil Aviation Authority / Country: FAA / UNITED STATES | | 2. AUTHORIZED RELEASE CERTIFICATE FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG | | | 3. Form Tracking Number: 0000000000008478174 33177338 Page 1 of 1 | |
| 4. Organization Name and Address: GOODRICH CORPORATION 2727 East Imperial Hwy. Brea, CA 92821 TEL: 714-984-1461 FAX: 714-984-1675 Repair Station # A04R057M | | | 5. Work Order/Contract/Invoice Number: 4802343764 / 20 | | | |
| 6. Item: | 7. Description: | 8. Part Number: | 9. Quantity: | 10. Serial Number: | 11. Status/Work: | |
| 01 | RESCUE HOIST ASSY DC PWD | 44316-12-104 | 1 | 40542 | REPAIRED | |
| 12. Remarks: Purpose: Approval for Return to Service Batch no. / Lot ID:0029518645 Repaired on WO 44115797 IAW CMM 25-60-06-3, Rev. "2". Complied with the following service bulletins: EASA AD 2015-0226R5, SIL-2019-05, SIL-2019-02, SIL-2018-03, ASB 44301-10-18, SB 44316-600-3-03, SB 44316-602-101-02. Installed Pop. 2 clutch PN 44314-398-101, SN: L92-176, clutch slip: 1396, TSN: 0000 hours. Rescue hoist cable PN 42325-298, SN: S86-58. Hoist TSN: 010.0 Hours. Unit passed the acceptance testing requirements as defined by CMM 25-60-06-3. Refer to the attached strip report for the shop findings report. CPN: 3G2591V01532 (LEONARDO MALAYSIA SDN BHD) Export airworthiness approval-this article meets the special requirements of MALAYSIA PMA Certifies that the work specified in block 11/12 was carried out in accordance with EASA Part 145 and in respect to that work the [product/article] is considered ready for release to service under EASA Part 145 Approval No. EASA145.4649 | | | | | | |
| 13a. Certifies the items identified above were manufactured in conformity to: <input type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 12. | | | 14a. <input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service <input checked="" type="checkbox"/> Other regulation specified in Block 12 Certifies that unless otherwise specified in Block 12, the work identified in Block 11 and described in Block 12 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service. | | | |
| 13b. Authorized Signature: | | 13c. Approval / Authorization No.: | 14b. Authorized Signature: <i>A. Shamayeli</i> | | 14c. Approval / Certificate No.: AO4R057M | |
| 13d. Name (Typed or Printed): | | 13e. Date (dd/mmm/yyyy): | 14d. Name (Typed or Printed): AMIR SHAMAYELI | | 14e. Date (dd/mmm/yyyy): 21 APR 2021 | |
| User / Installer Responsibilities | | | | | | |
| It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts aircraft engine(s)/propeller(s)/article(s) from the airworthiness authority of the country specified in Block 1. Statements in Blocks 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown. | | | | | | |

SERVICEABLE



GalaxyAerospace
maintenance . repair . overhaul

| | |
|---|-------------------------------|
| ITEM ID: 25976 | |
| DESCRIPTION: HOIST CORE | |
| PART NO: 3G2591V01532 | QTY: 1.00 |
| SERIAL NO: 40542* | BIN: -- |
| CONDITION: RP | LOCATION WAREHOUSE BONDED PGU |
| TSN: | TSO: |
| SHELF DUE / EXP DATE: | |
| JOB ID: 0 | PO ID: |
| GIN / ID. NO: GiN1439 | APPROVAL: |
| SIGN:  | |

CERTIFICATE OF CONFORMANCE

Goodrich Corporation
2727 East Imperial Hwy.
Brea, CA 92821



UTC Aerospace Systems

Date:
19-APR-2021

Page 1 of 1

Delivery No:
33177338

Customer PO/Item:
4802343764 / 20

Sold-to Address: 81762
LEONARDO MALAYSIA SDN BHD
SULTAN ABDUL AZIZ SHAH AIRPORT
LOT 1 & 2 HELICOPTER CENTER
47200 SUBANG
MALAYSIA

Ship-to Address: 81750
LEONARDO MALAYSIA SDN BHD
AW MALAYSIA LOGISTIC CENTER
TAMAN SAINS SELANGOR 1
LOT 10 JALAN TEKNOLOGI
47810 PETALING JAYA
MALAYSIA

| Item | Material | Description | Total Qty | UOM | Batch Nbr | Country of Origin |
|------|--------------|-----------------------------|-----------|-----|------------|-------------------|
| Sub | Material | Description | Batch Qty | UOM | Batch Nbr | Country of Origin |
| 10 | 44316-12-104 | RESCUE HOIST ASSY DC PWD | 1 | EA | 0029518645 | US |

Serial number(s): 40542

Customer Part Number: 3G2591V01532

Sales Order Number/Item: 8247486/001030

Certificate of Conformance:

THIS HOIST ASSY. CONTAINS:

NEW POP 2 CLUTCH ASSY.

PART NUMBER: 44314-398-101

SERIAL NUMBER: L92-176

UNIT PASSED ATP PER CMM 25-60-06-3

WE HEREBY CERTIFY THAT THE ITEMS OR MATERIAL COVERED BY THIS DOCUMENT HAVE BEEN INSPECTED AND TESTED AND CONFORM TO THE APPROVED SPECIFICATIONS RELATIVE HERETO. THIS IS SUBSTANTIATED EITHER BY OUR OWN INSPECTION AND TEST, OR BY SATISFACTORY DOCUMENTARY EVIDENCE FROM THE ORIGINAL SOURCE OF SUPPLY.



[Signature]

AUTHORIZED SIGNATURE

APR 21 2021

DATE

TEARDOWN REPORT

SIS-CA MRO
 SIS-CA HOIST & WINCH MRO
 2727 EAST IMPERIAL HWY
 BREA CA 92821-6713
 USA



Repair Station #AO4R057M

| | | | |
|---------------------|---------------------------|----------------------|-------------------------|
| Customer | LEONARDO MALAYSIA SDN BHD | Cust PO | 4802343764 |
| Input Part | 44316-12-104 | Input Serial | 40542 |
| Output Part | 44316-12-104 | Output Serial | 40542 |
| Cust Part | 3G2591V01532 | Cust Serial | 40542 |
| Description | RESCUE HOIST ASSY DC PWD | Removal Code | CRFR PN 44316-12-104 SN |
| Aircraft | | Engine Type | |
| Incoming NSN | N/A | Outgoing NSN | N/A |
| Date Rec'd | 12/30/2020 | Quote Date | 01/19/2021 |
| Ship Date | | DOM | |
| Sales Order | 8247486 | Work Order | 44115797 |
| | | Notification | 304073577 |
| | | Qty | 1.000 |
| | | Workscope | REPAIR |
| | | Status/Work | REPAIRED |
| | | Failure Date | |
| Tail No | | | |
| Accept Date | | | 04/02/2021 |

Technical Documents :

CS: Service Bulletin Recurring 44301-10-18 Revision: 6 Rev. Date: 10/10/2016
 Service Bulletin Recurring 44301-10-22 Revision: 4 Rev. Date: 03/28/2016
 Service Letter Recurring SIL-2018-03 Revision: 1 Rev. Date: 04/03/2018
 Service Letter Recurring SIL-2019-02 Revision: 1 Rev. Date: 03/21/2019
 Service Letter Recurring SIL-2019-05 Revision: 1 Rev. Date: 10/21/2019
 CMM: 25-60-06-3 ATA #: 25-60-06-3 Revision: 2 Rev. Date: 05/24/2016

Customer Reason for Return

Reason for return:

PN 44316-12-104 SN 40542 MFG 2017. NO REPAIR HISTORY. REASON FOR RETURN:
 CLUTCH OVERHAUL - HOIST HAS PASSED THE DUE DATE OF 36 MONTHS. PLATFORM
 AW139, COUNTRY OF OPERATION: MALAYSIA. REGULATORY AUTHORITY CAAM. TC
 HOLDER: LHD

Evaluation Inspection

INITIAL OBSERVATION

Received By: Robert Silva
 Received on: 12/09/2020
 Inducted on: 12/30/2020
 Last shipped: TBD
 MFG Date: TBD
 Warranty Consideration: NO
 Log cards received: 6 LOG CARDS RECEIVED
 ID Plate: NO DRUM COVER
 Viboscribe: 44316-12-104 SN 40542
 Color: WHITE
 Hook Received: 42315-488 SN 3364 W/CABLE HOOK ASSY ATTACHED
 Damage to crate: NO
 Crate Number: CUSTOMER WOOD CRATE NOT STANDARD GOODRICH SHIPPING CRATE

TEARDOWN REPORT



| | | | | | |
|-------------------|--------------|---------------------|--------------------------|-------------------|------------|
| Work Order | 44115797 | Description | RESCUE HOIST ASSY DC PWD | Date Rec'd | 12/30/2020 |
| Input Part | 44316-12-104 | Input Serial | 40542 | | |
| Cust Part | 3G2591V01532 | Cust Serial | 40542 | | |

Loose Hardware: NO
 Cable Received: YES
 Meter Reading: 008.5 HOURS
 Fairings Received: NO FAIRINGS RECEIVED
 Customer owned material received:
 NO CUSTOMER OWNED MATERIAL RECEIVED
 LRUs received:
 1. 44316-602-101 SN 00412
 FAR Required:
 Cartridge received: NO
 Customer reference numbers: 4802343764
 Per-CSR the Reason For Return:
 CLUTCH OVERHAUL - HOIST HAS PASSED THE DUE DATE OF 36 MONTHS. PLATFORM AW139, COUNTRY OF OPERATION: MALAYSIA. REGULATORY AUTHORITY CAAM. TC HOLDER: LHD
 Members present during the induction: Robert Silva
 CSR: TIFFANY
 Per-CSR End User: ROYAL MALAYSIAN POLICE

Evaluation Inspection

Test Evaluation

TEST EVALUATION ##### Date; 1-4-2021
 Hector 00826026
 Work Order Number; 44115767
 Part Number; 44316-12-104
 Serial Number; 40524
 Resaon For return; Clutch overhaul, confirmed

- 1) Unit looks in good condition
- 2) Cable looks good, ok to re-use
- 3) carrier assembly has matching s/n's, MSL14-8
- 4) bumper/hook assembly at 2.899
- 5) No fairings rec'd with unit
- 6) Cycles ran good, cable speeds and amps
- 7) Over travel was good, 300 lbs at 1/2 and 600 lbs at 1/2
- 8) Clutch slip pull at 1816 lbs
- 9) Oil drained and cable spooled
- 10) Unit ready for dis-assembly

Evaluation Inspection

Disassembly Evaluation

Unit was disassembled and inspected in accordance with the Disassembly and Check sections of CMM 25-01-13 and/or per OEM specifications.
 The customer's reason for return was: Confirmed.
 The following service bulletins will be applied: 44316-602-101-02,

TEARDOWN REPORT



| | | | | | |
|-------------------|--------------|---------------------|--------------------------|-------------------|------------|
| Work Order | 44115797 | Description | RESCUE HOIST ASSY DC PWD | Date Rec'd | 12/30/2020 |
| Input Part | 44316-12-104 | Input Serial | 40542 | | |
| Cust Part | 3G2591V01532 | Cust Serial | 40542 | | |

SIL-2018-03, SIL-2019-02, SIL-2019-05, 44301-10-18, 44316-600-3-03.

The following sub-assemblies were disassembled to complete the repair: Motor Assembly, Automatic Brake Assembly, Overload Clutch Assembly, Gearbox Assembly.

Technician Notes:

The unit is here for pop2 clutch.
 Removed the brake for torque reading; at 31.9 in-lb. and will reset at reassy at 31-35 in-lb.
 Cable is ok to reuse.
 Bumper measured at 2.89
 Motor sent to Electronic Department for service bulletin.
 Shipping Fairings, Cover Drum Housing and Fairing Levelwind were missing.
 Disassembly completed.

All accessible critical parts were inspected in accordance with the critical parts inspection criteria. Refer to the attached strip report for a list of replaced components.

Evaluation Inspection

Motor Test Evaluation

Unit was tested IAW the Testing and Fault Isolation section of CMM 25-61-13-3.

Other Notes:

GENOUT current is slightly low at 36 in-lbs.
 Functional test is normal.

Evaluation Inspection

Motor Disassembly Evaluation

Unit was disassembled and inspected in accordance with OEM specifications and FAA approved data.

Technician Notes:

- = Disassembled the motor for verification of all service bulletins and CCA boards. Service bulletins 44316-600-3-03, and 44316-602-101-02 are applicable.
- = Removed PCB 44316-750 old version and disposal.
- = Installed PCB 44316-865 S/N: A1441 S/N: A1457 screened by engineer.
- = Reassemble the motor and RE-ATP.

All accessible critical parts were inspected in accordance with the critical parts inspection criteria. Refer to the attached strip report for a list of replaced components.

SIS-CA MRO
 SIS-CA HOIST & WINCH MRO
 2727 EAST IMPERIAL HWY
 BREA CA 92821-6713
 USA
 Repair Station #AO4R057M

TEARDOWN REPORT



| | | | | | |
|-------------------|--------------|---------------------|--------------------------|-------------------|------------|
| Work Order | 44115797 | Description | RESCUE HOIST ASSY DC PWD | Date Rec'd | 12/30/2020 |
| Input Part | 44316-12-104 | Input Serial | 40542 | | |
| Cust Part | 3G2591V01532 | Cust Serial | 40542 | | |

Evaluation Inspection
 Minor w/Clutch +missing fairing

Tear Down Attachment

Quote Attachment

Service Notification Attachment

Service Bulletins - Outgoing
 ZMT SIL-2019-05

Service Bulletins - Outgoing
 ZMT SIL-2019-02

Service Bulletins - Outgoing
 ZMT SIL-2018-03

Service Bulletins - Outgoing
 ZMT 44301-10-18

Service Bulletins - Outgoing
 ZMT 44316-600-3-03

Service Bulletins - Outgoing
 ZMT 44316-602-101-02

Components :

| Order | Material | Description | Req Qty | Issued | Reason Code | Stor Loc |
|----------|--------------|-----------------------|---------|--------|---------------------|----------|
| 44115797 | 42315-190 | SET SCREW, CABLE DRUM | 1 | 1 | Stripped threat | PDS1 |
| 44115797 | 42277-289 | LOCK SPRING- CARRIER | 1 | 1 | Sprung | PDS1 |
| 44115797 | 42315-165-18 | BEARING, BALL | 1 | 1 | Freedom of rotation | PDS1 |

TEARDOWN REPORT

SIS-CA MRO
 SIS-CA HOIST & WINCH MRO
 2727 EAST IMPERIAL HWY
 BREA CA 92821-6713
 USA
 Repair Station #AO4R057M



| Work Order | 44115797 | Description | RESCUE HOIST ASSY DC PWD | Date Rec'd | 12/30/2020 |
|------------|--------------------|---|--------------------------|------------|-----------------------------|
| Input Part | 44316-12-104 | Input Serial | 40542 | | |
| Cust Part | 3G2591V01532 | Cust Serial | 40542 | | |
| 44115797 | 42315-165-20 | BEARING, BALL, SEALED | 1 | 1 | Freedom of rotation PDS1 |
| 44115797 | 44314-398-101 | OVERLOAD CLUTCH ASSEMBLY | 1 | 1 | SIL-2019-05 PDS1 |
| 44115797 | 42325-128 | COVER, DRUM HOUSING | 1 | 1 | Missing PDS1 |
| 44115797 | 44311-128 | FAIRING LEVELWIND | 1 | 1 | Missing PDS1 |
| 44115797 | 44316-151 | SHIPPING PROTECTION | 1 | 1 | Missing PDS1 |
| 44115797 | 44316-153 | SHIPPING PROTECTION | 1 | 1 | Missing PDS1 |
| 44115797 | MP200 | PLATE, MARKER, IDENTIFICATION, WHITE, NYLON | 1 | 1 | SB44316-850-01 PDS1 |
| 44141040 | 1814-8-SS-PS-S-12A | SCREW, PAN HEAD | 8 | 8 | SB44316-600-3-03 PDS1 |
| 44141040 | 44316-865 | PCB ASSEMBLY, VOLTAGE CLAMP BD | 2 | 2 | SB44316-600-3-03 PDS1 |
| 44141040 | 44311-731-8 | INSULATOR, THERMALLY | 2 | 2 | SB44316-600-3-03 PDS1 |
| 44141040 | 44311-731-5 | INSULATOR, THERMALLY | 4 | 4 | SB44316-600-3-03 PDS1 |
| 44141040 | 00462148997 | RESISTOR, POWER, 200 WATT, SOT-227B | 4 | 4 | SB44316-600-3-03 PDS1 |



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PART NUMBER 44316-10 AND 44316-12

Figure 108. Test Datasheet (Sheet 1 of 8)

Goodrich P/N: 44316-12-104 Rev.: _____ S/N: 40542 Date: 4-15-21
 Customer Part Number _____ Work Order No.: 44115979
 Motor/Controller P/N: 44316-602-10 S/N: 00412 Ambient Air Temp: 69.4C °F or °C
 Test Stand No.: 2

| PARA TEST | MEASUREMENT | LIMIT | ACCEPT | REJECT |
|--|-------------|--|--------|--------|
| 1.A.(7) Overload Clutch Test | | Test performed | ✓ | |
| 1.A.(8) Automatic Brake Assembly Test | | Test performed | ✓ | |
| 4.A Cable Foul Switch Test | | | | |
| 4.A.(1) Cable Foul No Operation (for all hoists except 44316-12-102) | | | | |
| e) Hoist reeling operation | | Stops | ✓ | |
| Pendant: | | | | |
| CBL indicator | | Illuminates | ✓ | |
| SLOW & TEMP indicators | | Blink alternately | ✓ | |
| g) Pendant: | | | | |
| CBL indicator | | Remains illuminated | ✓ | |
| SLOW & TEMP indicators | | Stop Blinking & not illuminated | ✓ | |
| h) Hoist | | No operation | ✓ | |
| Pendant CBL indicator | | Remains illuminated | ✓ | |
| i) Pendant CBL indicator | | Not illuminated | ✓ | |
| j) Hoist | | Operates | ✓ | |
| l) Hoist reeling operation | | Stops | ✓ | |
| Pendant: | | | | |
| CBL indicator | | Illuminates | ✓ | |
| SLOW & TEMP indicators | | Blink alternately | ✓ | |
| n) Pendant: | | | | |
| CBL indicator | | Remains illuminated | ✓ | |
| SLOW & TEMP indicators | | Stop Blinking & not illuminated | ✓ | |
| o) Hoist | | No operation | ✓ | |
| Pendant CBL indicator | | Remains illuminated | ✓ | |
| p) Pendant CBL indicator | | Not illuminated | ✓ | |
| q) Hoist | | Operates | ✓ | |
| 4.A.(2) Cable Foul No Operation (for 44316-12-102) | | | | |
| e) Hoist reeling operation | | Stops | | |
| Pendant: | | | | |
| CBL indicator | | Illuminates | | |
| SLOW & TEMP indicators | | Blink alternately | | |
| g) Pendant: | | | | |
| CBL indicator | | Remains illuminated | | |
| SLOW & TEMP indicators | | Stop Blinking & not illuminated | | |
| h) Hoist | | Operates at approx. 35 ft/min (11 m/min) | | |
| Pendant CBL indicator | | Remains illuminated | | |
| i) Pendant CBL indicator | | Not illuminated | | |
| Hoist | | Operates at normal Speed | | |
| k) Hoist reeling operation | | Stops | | |
| Pendant: | | | | |
| CBL indicator | | Illuminated | | |
| SLOW & TEMP indicators | | Blink alternately | | |
| m) Hoist | | Operates at approx. 35 ft/min (11 m/min) | | |
| Pendant CBL indicator | | Remains illuminated | | |

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COMPONENT MAINTENANCE MANUAL
PART NUMBER 44316-10 AND 44316-12



Figure 108. Test Datasheet (Sheet 2 of 8)

Goodrich P/N: 44316-12-104 Rev.: Y S/N: 40542 Date: 4-15-21
Work Order No.: 44115797

| PARA TEST | MEASUREMENT | LIMIT | ACCEPT | REJECT |
|---|---|---|----------------------|--------|
| n) Pendant CBL indicator Hoist | | Not illuminated Operates at normal speed | <u>N/A</u> | |
| 4.B DC Bonding Resistance Test | | | | |
| (3) Connector J1 to housing | <u>1.99</u> m Ohms | 20.0 mOhms Max. | <u>✓</u> | |
| Connector J2 to housing | <u>1.76</u> m Ohms | 20.0 mOhms Max. | <u>✓</u> | |
| Connector J3 to housing | <u>2.89</u> m Ohms | 20.0 mOhms Max. | <u>✓</u> | |
| 4.C Observations/Tests | | | | |
| 4.C.(3) Cable Install | | | | |
| (a) Traction System | | Maintains tension | <u>✓</u> | |
| Internal Cable Tension | | Cable taut | <u>✓</u> | |
| (b) Cable inspection | | No snags/broken wires | <u>✓</u> | |
| (c) Cable Management | Wraps evenly <input checked="" type="checkbox"/> No fouling <input checked="" type="checkbox"/> No kinking <input checked="" type="checkbox"/> No bunching <input checked="" type="checkbox"/> No overlay <input checked="" type="checkbox"/> | | <u>✓</u> | |
| (d) Hour Meter (Initial Reading) | <u>0009.1</u> hrs | | | |
| (e) Cable Extremities Indication | Initial/final 20' of Cable Cable Part Number <u>42325-298</u> Cable Serial Number <u>586-58</u> | Color orange | <u>✓</u> | |
| 4.C.(4) Indicator Test | | | | |
| (a) Pendant: All indicators | | flash 3 times, then TEMP continues flashing | <u>✓</u> | |
| Cable Payout Display: All indicators | | flash 3 times, then TEMP continues flashing | <u>✓</u> | |
| (b) Pendant TEMP indicator Cable Payout Display TEMP indicator | | stops flashing stops flashing | <u>✓</u> <u>✓</u> | |
| (c) For all hoists except 44316-12-102 | | | | |
| 1) Pendant WTR indicator | | Illuminated | <u>✓</u> | |
| 2) Pendant WTR indicator | | Not illuminated | <u>✓</u> | |
| (d) For 44316-12-102 hoists | | | | |
| 1) Pendant GEN indicator | | Not illuminated | <u>N/A</u> | |
| 2) Pendant GEN indicator Return GENOUT switch to ON position | | Illuminated | <u>N/A</u> | |
| 4.C.(5) Hoist Fan (for 44316-12-101 hoists only) | | | | |
| (b) Hoist Fan | | Operating properly | <u>N/A</u> | |

Warning – This information contains technical data subject to EAR 9E991



COMPONENT MAINTENANCE MANUAL
PART NUMBER 44316-10 AND 44316-12



Figure 108. Test Datasheet (Sheet 3 of 8)

Goodrich P/N: 44316-12-104

Rev.: Y

S/N: 40542

Date: 4-15-21

Work Order No.: 4415797

| PARA TEST | MEASUREMENT | LIMIT | ACCEPT | REJECT |
|---|------------------|----------------------------------|-------------------------------------|--------------------------|
| 4.C.(6) Overtemperature Function | | | | |
| (c) Pendant TEMP indicator | | Illuminated | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Hoist Cable Speed | <u>81</u> ft/min | Approx. 125 ft/min (38 m/min) | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| (e) Pendant TEMP indicator | | Not illuminated | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| (g) Hoist Cable Speed | | Increase to full speed | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 4.C.(7) Cable Cut Harness Test | | | | |
| (a) SQUIB A lamp | | Illuminated | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| SQUIB B lamp | | Not Illuminated | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| (b) SQUIB A lamp | | Not Illuminated | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| SQUIB B lamp | | Illuminated | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 4.D Extended Limit Switch Adjustments | | | | |
| 4.D.(1) Adjust "DOWN-ALL-STOP" Limit Switches S1 and S2 | | | | |
| (a) Switches S11 and S12 ON (Reel out) | | | | |
| Cable on drum | | 3 to 3 1/4 wraps | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| (b) Rotate Cam of S1 and S2 | | S1 & S2 actuate | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| (f) Switch S12 ON (Reel out) | | | | |
| S1 and S2 operate | | Hoist stops rotating | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| | | Minimum 2 1/2 cable wraps | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| (g) Switch S11 and S12 ON | | Cable reels out | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| (h) Release S11 | | Cable stops | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 4.D.(2) Adjust "FULL-OUT" Limit Switches S3 and S4 | | | | |
| (a) Switch S11 ON | | | | |
| Cable on drum | | 4 to 4 1/2 wraps | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| (b) Rotate Cam of S3 and S4 | | S3 & S4 actuate | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| (f) Reel out, S3 and S4 operate | | Cable reel-out stops | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| | | 3 1/2 cable wraps Min. | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| (g) Switch S12 ON | | Cable reels out | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Reel out at least 1/4 revolution | | S1 and S2 actuate | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Cable reel out | | Stops | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 4.D.(3) Adjust "UP/DOWN-SLOW" Intermediate Deceleration Limit Switches S5 and S6 | | | | |
| (a) Switch S11 ON (Reel in) | | | | |
| Cable on drum | | 7 - 7 1/4 wraps | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| (b) Rotate Eyelid Cam of S5 and S6 | | S5 & S6 actuate | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| (d) Reel out at full speed | | S5 & S6 operate | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Pendant SLOW light | | Illuminates | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Hoist speed | | Decelerates | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Cable Speed Deceleration | | Occurs before | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| | | S3 and S4 actuate | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Pendant SLOW light | | Not illuminated | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 4.E Feet/Meters Display Check | | | | |
| (3) Pendant CABLE LENGTH display | | 285 to 290 feet | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Cable Payout Display CABLE PAYOUT | | 285 to 290 feet | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| (5) Pendant CABLE LENGTH display | | 86.8 to 88.4 meters | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Cable Payout Display CABLE PAYOUT | | 86.8 to 88.4 meters | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| (8) Pendant CABLE LENGTH display | | 98 to 102 feet | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Cable Payout Display CABLE PAYOUT | | 98 to 102 feet | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

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PART NUMBER 44316-10 AND 44316-12



Figure 108. Test Datasheet (Sheet 4 of 8)

Goodrich P/N: 44316-12-104 Rev.: Y S/N: 40542 Date: 4-15-21
Work Order No.: 44115797

| PARA TEST | MEASUREMENT | LIMIT | ACCEPT | REJECT |
|---|-------------------|--|-------------------------------------|--------------------------|
| (10) Pendant CABLE LENGTH display | | 0 feet | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Cable Payout Display CABLE PAYOUT | | 0 feet | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| (12) Pendant CABLE LENGTH display | | 0.0 meters | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Cable Payout Display CABLE PAYOUT | | 0.0 meters | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| (14) Pendant CABLE LENGTH display | | 0 feet | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Cable Payout Display CABLE PAYOUT | | 0 feet | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 4.G Temporary Retracted Limit Switch Adjustments | | | | |
| (3) S7 and S8 | | Actuate | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Hoist cable velocity | <u>34</u> ft/min | 35 ± 5 ft (10.7±1.5m)/min | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| (6) S5 and S6 | | Actuate | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Hoist cable velocity | <u>86</u> fpm | 75 ± 15ft (23± 4.6m)/min | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 4.H Pilot and Operator Command Override Tests | | | | |
| (2) Cable reeling direction | | IN at 80 ft/min to "OUT" at 180 – 220 ft/min | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| (4) Hoist cable | | Stops, then Reels in at 70 to 120 ft/min | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| (6) Hoist cable | | Stops , then reels out | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 4.I Operational Tests | | | | |
| (1) Ambient air temperature | <u>69.4</u> | °F or °C (circle) | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| (3) Motor current | <u>49</u> Amps | < 70 Amps | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| (4).(c) Braking over travel distance in 1/8th revolution increments or cable length | | | | |
| 50 lb. load (Cycle 1) | <u>5/8</u> | | | |
| 200 lb. load (Cycle 2) | <u>5/8</u> | <u>5/8</u> | | |
| 300 lb. load (Cycle 3) | <u>5/8</u> | | | |
| 400 lb. load (Cycle 6) | <u>5/8</u> | <u>5/8</u> | | |
| 500 lb. load (Cycle 7) | <u>5/8</u> | | | |
| 600 lb. load (Cycle 8) | <u>1/2</u> | | | |
| (4).(f).1 44316-12-102 Hoists only – Demonstrate Overtemperature/Generator Out function | | | | |
| Cable Velocity | <u>N/A</u> ft/min | 85 ft (25.9 m)/min MIN | <u>N/A</u> | <u>N/A</u> |
| Current | <u>N/A</u> Amps | 80 Amps MAX | <u>N/A</u> | <u>N/A</u> |
| (4).(f).2 All hoists except 44316-12-102 – Demonstrate Generator Out function | | | | |
| Cable Velocity (top layer) | <u>108</u> ft/min | 100 ft (30.5m)/min MIN | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Current (top layer) | <u>80.5</u> Amps | 85 Amps MAX | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| (5) Pilot control (reel in direction) | | Overrides Pendant | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Pilot control (reel out direction) | | Overrides Pendant | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

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Figure 108. Test Datasheet (Sheet 5 of 8)

Goodrich P/N: 44316-12-104

Rev.: Y

S/N: 40542

Date: _____

Work Order No.: 44115797

(Use this data sheet for the 44316-12-102 hoist)

| C y c l e | Control Mode | Direction | Command Cable Speed | Cable Load (Lbs.) | Cable Speed ^{1 & 2} (FPM) | | | Max. Current ³ (Amps) | | Oil Sump (°F) (220°F Max) | Motor Heat Sink (°F) (150°F Max) |
|-----------------------|--------------|-----------|---------------------|-------------------|--|-----------------|------------------------------------|----------------------------------|---------|---------------------------|----------------------------------|
| | | | | | Top Layer ₁ | Top Layer Req'd | 2 nd Layer ₂ | Actual | Req'd | | |
| 1 | Pendant | Down | Variable | 50 | | 250 min | | | ---- | | |
| | | Up | | | | 250 min | | | ---- | | |
| 2 | Pendant | Down | Variable | 200 | | 250 min | | | ---- | | |
| | | Up | | | | 250 min | | | ---- | | |
| 3 | Pendant | Down | Variable | 300 | | 250 min | | | ---- | | |
| | | Up | | | | 250 min | | | ---- | | |
| 4 | Operator | Down | Fixed | 300 | | 180 - 220 | | | ---- | | |
| | | Up | | | | 180 - 220 | | | ---- | | |
| 5 | Pilot | Down | Fixed | 300 | | 85 - 115 | | | ---- | | |
| | | Up | | | | 85 - 115 | | | ---- | | |
| 6 | Pendant | Down | Variable | 400 | | 250 min | | | ---- | | |
| | | Up | | | | 200 min | | | ---- | | |
| 7 | Pendant | Down | Variable | 500 | | 250 min | | | ---- | | |
| | | Up | | | | 200 min | | | ---- | | |
| 8 | Pendant | Down | Variable | 600 | | 250 min | | | ---- | | |
| | | Up | | | | 200 min | | | 150 max | | |
| | | | GENOUT ⁴ | | | 85 min | | | 80 max | | |
| 9 | Operator | Down | Fixed | 600 | | 180 - 220 | | | ---- | | |
| | | Up | | | | 180 - 220 | | | ---- | | |
| 10 | Pilot | Down | Fixed | 600 | | 85 - 115 | | | ---- | | |
| | | Up | | | | 85 - 115 | | | ---- | | |

- Notes: ¹ Cable speed measured on top layer.
² Cable speed measured on second layer – for reference only.
³ Maximum current measured on top layer.
⁴ Test required for 44316-12-102 Hoist only.

Accept _____ Reject _____

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PART NUMBER 44316-10 AND 44316-12

Figure 108. Test Datasheet (Sheet 6 of 8)

Goodrich P/N: 44316-12-104 Rev.: Y S/N: 40542 Date: 4-15-21
Work Order No.: 44115797

(Use this data sheet for the 44316-10-101, -104 and 44316-12-101, -104, -105 hoists)

| C y c l e | Control Mode | Direction | Command Cable Speed | Cable Load (Lbs.) | Cable Speed ^{1,2} (FPM) | | | Max. Current ³ (Amps) | | Oil Sump (°F) (220°F Max) | Motor Heat Sink (°F) (150°F Max) |
|-----------------------|--------------|-----------|---------------------|-------------------|----------------------------------|-----------------|------------------------------------|----------------------------------|---------|---------------------------|----------------------------------|
| | | | | | Top Layer | Top Layer Req'd | 2 nd Layer ₂ | Actual | Req'd | | |
| 1 | Pendant | Down | Variable | 50 | 292 | 250 min | 238 | 68 | ---- | 84 | 77 |
| | | Up | | | 302 | 250 min | 242 | 49 | ---- | 91 | 79 |
| 2 | Pendant | Down | Variable | 200 | 304 | 250 min | 242 | 49 | ---- | 96 | 81 |
| | | Up | | | 302 | 250 min | 240 | 47 | ---- | 101 | 82 |
| 3 | Pendant | Down | Variable | 300 | 298 | 250 min | 240 | 60 | ---- | 109 | 84 |
| | | Up | | | 284 | 250 min | 232 | 95 | ---- | 121 | 86 |
| 4 | Operator | Down | Fixed | 300 | 193 | 180 - 220 | 153 | 33 | ---- | 116 | 87 |
| | | Up | | | 194 | 180 - 220 | 154 | 65 | ---- | 115 | 90 |
| 5 | Pilot | Down | Fixed | 300 | 97 | 85 - 115 | 77 | 17 | ---- | 124 | 92 |
| | | Up | | | 97 | 85 - 115 | 77 | 35 | ---- | 122 | 94 |
| 6 | Pendant | Down | Variable | 400 | 298 | 250 min | 240 | 63 | ---- | 142 | 95 |
| | | Up | | | 278 | 200 min | 228 | 117 | ---- | 146 | 96 |
| 7 | Pendant | Down | Variable | 500 | 295 | 250 min | 238 | 69 | ---- | 151 | 98 |
| | | Up | | | 250 | 200 min | 220 | 139 | ---- | 156 | 99 |
| 8 | Pendant | Down | Variable | 600 | 294 | 250 min | 238 | 72 | ---- | 167 | 101 |
| | | Up | | | 216 | 200 min | 210 | 143 | 150 max | 171 | 102 |
| | | GENOUT | 108 | 100 min | 112 | 80.5 | 85 max | 166 | 104 | | |
| 9 | Operator | Down | Fixed | 600 | 194 | 180 - 220 | 154 | 50 | ---- | 164 | 116 |
| | | Up | | | 193 | 180 - 220 | 154 | 132 | ---- | 157 | 124 |
| 10 | Pilot | Down | Fixed | 600 | 97 | 85 - 115 | 77 | 24 | ---- | 150 | 123 |
| | | Up | | | 97 | 85 - 115 | 77 | 74 | ---- | 145 | 132 |

Notes: ¹ Cable speed measured on top layer.
² Cable speed measured on second layer – for reference only.
³ Maximum current measured on top layer.

Accept / Reject



COMPONENT MAINTENANCE MANUAL
PART NUMBER 44316-10 AND 44316-12

Figure 108. Test Datasheet (Sheet 7 of 8)

Goodrich P/N: 44316- 12-104 Rev.: Y S/N: 40542 Date: 4-15-21
Work Order No.: 4115797

| PARA TEST | MEASUREMENT | LIMIT | ACCEPT | REJECT |
|---|--|--------------------|--------------------------------------|-------------------------------------|
| 4.J.(2) Overload Clutch Test | | | | |
| (h) | Gearbox oil temperature | <u>89</u> °F or °C | 85-90°F (29-32°C) | <input checked="" type="checkbox"/> |
| | Cable Drum | | Does not rotate | <input checked="" type="checkbox"/> |
| (j) | Gearbox oil temperature | <u>88</u> °F or °C | 85-90°F (29-32°C) | <input checked="" type="checkbox"/> |
| | Clutch slip average load | <u>1396</u> lbs | 1275 to 1530 lbs. (578 to 694 kg) | <input checked="" type="checkbox"/> |
| 4.K Hoist Dead-Weight Load Test | | | | |
| (6) | Operate Hoist at 24 to 24.5 Volts: | | | |
| | 2 ft lift #1 | | Able to lift weight | <input checked="" type="checkbox"/> |
| | 2 ft lift #2 | | Able to lift weight | <input checked="" type="checkbox"/> |
| (7) | Lower dead-weight using Pendant | | Does not stall | <input checked="" type="checkbox"/> |
| 4.L Final Retracted Limit Switch Adjustments and Operational Checks | | | | |
| 4.L.(1) Adjust "UP/DOWN-SLOW" Limit Switches S5 and S6 | | | | |
| (c) | Pendant CABLE LENGTH display | | > 280 ft. (85 m) | <input checked="" type="checkbox"/> |
| (d) | Reel in with zero load | | No cable defects | <input checked="" type="checkbox"/> |
| | Reel in cable | | 9½-10½ ft. extended | <input checked="" type="checkbox"/> |
| (e) | Rotate Basic Cam of S5 and S6 | | S5 & S6 actuate | <input checked="" type="checkbox"/> |
| (g) | S5 and S6 | | Actuate | <input checked="" type="checkbox"/> |
| (h) | Length between cable guide and cable end | | 9-½ to 10-½ feet | <input checked="" type="checkbox"/> |
| (i) | Cable Speed | | Decelerates | <input checked="" type="checkbox"/> |
| | Pendant SLOW light | | Illuminates | <input checked="" type="checkbox"/> |
| 4.L.(2) Adjust "2-FT UP-DECEL" Limit Switches S7 and S8 | | | | |
| (c) | S7 and S8 | | Actuate | <input checked="" type="checkbox"/> |
| (e) | S7 and S8 actuate | | Actuate | <input checked="" type="checkbox"/> |
| (f) | Length between cable guide and cable end | | 21 to 26 inches | <input checked="" type="checkbox"/> |
| (g) | Cable Speed | | Decelerates | <input checked="" type="checkbox"/> |
| | Pendant SLOW light | | Remains illuminated | <input checked="" type="checkbox"/> |
| 4.L.(4) Inertial Limit/Homing Load & "UP LIMIT" Limit Switches S9 and S10 Adjustment | | | | |
| (b) | Uncompressed thickness (A) | <u>3.159</u> in. | | |
| (c) | UP LIMIT switches | | Actuate | <input checked="" type="checkbox"/> |
| | Hoist operation | | Stops | <input checked="" type="checkbox"/> |
| | Activate S9 and S10 separately | | Hoist stops each time | <input checked="" type="checkbox"/> |
| (f) | Compressed thickness (B) | <u>3.074</u> in. | | |
| (g) | Energy Absorber compression 1 (A-B=C) | <u>0.085</u> in. | (0.065-0.125 in.) | <input checked="" type="checkbox"/> |
| | Load = (C x 1600) | | | |
| (h) | Hook Energy Absorber | <u>136</u> lbs. | Maintains homing load 150±50 lbs. | <input checked="" type="checkbox"/> |
| (i) | Uncompressed thickness (A) | <u>3.159</u> in. | | |
| | Compressed thickness (B) | <u>3.069</u> in. | | |
| | Energy Absorber compression 2 (A-B=C) | <u>0.090</u> in. | (0.065-0.125 in.) | <input checked="" type="checkbox"/> |
| | Load = (C x 1600) | | | |
| | Hook Energy Absorber | <u>144</u> lbs. | Maintains homing load 150±50 lbs. | <input checked="" type="checkbox"/> |

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PART NUMBER 44316-10 AND 44316-12



Figure 108. Test Datasheet (Sheet 8 of 8)

4-15-21

SB
4-15-21

Goodrich P/N: 44316-12-104

Rev.: Y

S/N: V0542 Date: 4-11

Work Order No.: 4415797

| PARA TEST | MEASUREMENT | LIMIT | ACCEPT | REJECT |
|--|------------------|---------------------------------------|-------------------------------------|--------------------------|
| (i) Uncompressed thickness (A) | <u>3.159</u> in. | (0.065-0.125 in.) | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Compressed thickness (B) | <u>3.069</u> in. | | | |
| Energy Absorber compression 3 (A-B=C) | <u>0.090</u> in. | | | |
| Load = (C x 1600) | <u>144</u> lbs. | | | |
| Hook Energy Absorber | | Maintains homing load 150±50 lbs. | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 4.L.(5) Torque Check All Cam Screws | | | | |
| (a) Recheck all Cams torque | | 17-20 in-lbs. | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 4.L.(6) Final Potentiometer Adjustment | | | | |
| (c) Pendant CABLE LENGTH display | | 0 feet | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 4.M Post Check Procedures | | | | |
| (3) Hour Meter (Final Reading) | <u>010.0</u> hrs | Operates mid to ¾ level | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| (4) Drain and fill with new Mobil Jet II oil conditioned | | | | |
| (9) Weight of Hoist Assy & gear case oil | | For 44316-10-: 104.0 lb (47kg) max | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <u>103.6</u> Lbs. or <u>N/A</u> Kg | | For 44316-12-: 106.0 lb (48kg) max | | |

FINAL RESULT:

Remarks: Pretension set to ~520 lbs load

Tested By: _____

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