

RAAUZYUW RUEOMFN3613 0740139-UUUU--RUCKFCA RUCKFDA.
ZNR UUUUU ZUI RUEOMCE1907 0740149
R 141958Z MAR 02 PSN 111819J21
FM NAVAIRDEPOT CHERRY PT NC
TO RUCCNOQ/CG FOURTH MAW
RUCKFCA/CG SECOND MAW
RHOAEXJ/USNS NIAGARA FALLS
RHBPIKE/USS DWIGHT D EISENHOWER
RHBOIQM/USS ENTERPRISE
RHBVNGW/USS GEORGE WASHINGTON
RHPIJFK/USS JOHN F KENNEDY
RHPHNTR/USS THEODORE ROOSEVELT
RHRVEBJ/USS WASP
RULYNKP/USS KEARSARGE
RHBKJPX/USS NASSAU
RUVOARA/OC ALC TINKER AFB OK
RUEAHQA/HQ USAF WASHINGTON DC
RUSTRSA/DIRLOGSA REDSTONE ARSENAL AL
RUCOSSA/COMNAVAIRLANT NORFOLK VA
RUCCNOL/COMNAVAIRESFOR NEW ORLEANS LA
RULSFAN/COMNAVAIRSYS COM PATUXENT RIVER MD
RHPKHHI/USS BATAAN
RULYIWO/USS IWO JIMA
RUCCNOQ/CG FOURTH MAW
RUCKFCA/CG SECOND MAW//ALD/ALD-B//
RHOAEXJ/USNS NIAGARA FALLS
RHBPIKE/USS DWIGHT D EISENHOWER
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RHPKHHI/USS BATAAN
RULYIWO/USS IWO JIMA
RULYHOV/USS SAIPAN
RUCBLLA/MIDLANTREGCALCEN NORFOLK VA
RULSMCO/HMX ONE QUANTICO VA
RUCTPPV/DIRJOAP TSC PENSACOLA FL
RULYHOV/USS SAIPAN
RUCBLLA/MIDLANTREGCALCEN NORFOLK VA
RULSMCO/HMX ONE QUANTICO VA
RUCTPPV/DIRJOAP TSC PENSACOLA FL
ZEN/CG FIRST MAW
ZEN/CG THIRD MAW
ZEN/COMMARFORPAC
ZEN/COMMARFORPAC
ZEN/EODMU FIVE
ZEN/HELANTISUBRON SEVEN FIVE
ZEN/HMM ONE SIX SIX
ZEN/USS JOHN C STENNIS
ZEN/USS ABRAHAM LINCOLN
ZEN/USS CARL VINSON
ZEN/USS CONSTELLATION
ZEN/USS CROMMELIN
ZEN/USS KITTY HAWK

ZEN/USS NIMITZ
ZEN/USS HARRY S TRUMAN
ZEN/NATEC SAN DIEGO CA
ZEN/COMNAVAIRPAC SAN DIEGO CA
ZEN/CNATRA CORPUS CHX
ZEN/USS BONHOMME RICHARD
ZEN/USS BOXER
ZEN/USS ESSEX
ZEN/USS INCHON
ZEN/USS PELELIU
ZEN/USS TARAWA
ZEN/USS BELLEAU WOOD
ZEN/CG FIRST MAW
ZEN/CG THIRD MAW//ALD//
ZEN/COMMARFORPAC//ALD//
ZEN/COMMARFORPAC//ALD//
ZEN/EODMU FIVE
ZEN/HELANTISUBRON SEVEN FIVE
ZEN/HMM ONE SIX SIX
ZEN/USS JOHN C STENNIS
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ZEN/USS BONHOMME RICHARD
ZEN/USS BOXER
ZEN/USS ESSEX
ZEN/USS INCHON
ZEN/USS PELELIU
ZEN/USS TARAWA
ZEN/USS BELLEAU WOOD
ZEN/SIMA MAYPORT FL
ZEN/NAVSHIPYD AND IMF PEARL HARBOR HI
ZEN/SIMA SAN DIEGO CA
ZEN/NAVOAPROGMGR PENSACOLA FL
ZEN/NAVAVNMAINTOFF CKA ORANGE PARK FL
ZEN/SIMA MAYPORT FL
ZEN/NAVSHIPYD AND IMF PEARL HARBOR HI
ZEN/SIMA SAN DIEGO CA
ZEN/NAVOAPROGMGR PENSACOLA FL
ZEN/NAVAVNMAINTOFF CKA ORANGE PARK FL
INFO RUCKFDA/NAVAIRDEPOT CHERRY PT NC
BT
UNCLAS //N5600//

THIS IS A 2 SECTION MESSAGE COLLATED BY DMDS

SUBJ: R 141958Z MAR 02 NAVAIRDEPOT CHERRY PT NC (331) INTERIM RAPID ACTION CHANGE (IRAC) 27 TO NA 17-15-50.3, T.O. 33-1-37-3, TM 38-30 MSGID/GENADMIN/NAVAIRDEPOT CHERRY PT NC//
SUBJ/INTERIM RAPID ACTION CHANGE (IRAC) 27 TO NA 17-15-50.3, /T.O. 33-1-37-3, TM 38-301-3 OF 15 MAR 99 WITH CHG 1 OF 01 DEC 01//
REF/A/DOC/NA17-15-50.3/15MAR1999//
AMPN/NOT REQUIRED//

POC/L. A. DANIELS/DATA MANAGER/AIR-3.3.1/LOC:CHERRY POINT NC
/TEL:(252) 464-5585/TEL:DSN: 451-5585/EMAIL:DANIELSLA@NAVAIR.NAVY.MIL
//

RMKS/1. THIS INTERIM RAPID ACTION CHANGE IS AN OFFICIAL CHANGE TO ALL HOLDERS OF NA 17-15-50.3, T.O. 33-1-37-3, TM 38-301-3. U.S. ARMY AND U.S. AIR FORCE ADDRESSEES ARE RESPONSIBLE FOR PROMULGATION OF THIS CHANGE TO APPLICABLE SERVICE ACTIVITIES. RESPONSIBLE CODE: DIRJOAP TSC PENSACOLA FL, MR. MICHAEL CASSADY, DSN 922-5627 EXT 121, COMM (850) 452-5627 EXT 121.

2. PURPOSE OF CHANGE: TO ADD PPM TABLE AND SPECIFIC GUIDANCE FOR THE TF41 SERIES ENGINES WHICH WAS INADVERTENTLY REMOVED FROM THE MANUAL IN CHANGE 1.

3. DETAILED INFORMATION:

A. PEN AND INK CHANGES TO THE TECHNICAL CONTENT OF A MANUAL ARE NOT AUTHORIZED. THE FOLLOWING TECHNICAL CONTENT CHANGE INFORMATION APPLIES TO THE FOLLOWING SUBJECT MANUAL UNTIL A FORMAL CHANGE IS RELEASED.

B. ADD TO APPENDIX A, PAGE A-2, UNDER TURBOFAN/AUGMENTED TURBOFAN, THE FOLLOWING ENGINE DESIGNATIONS:
TF41-A-2/-2A/-2B/-2C/-400/-402C/-402D (NAVY ONLY). THE AIRCRAFT DESIGNATIONS ARE: (A-7A/-7E/-7F/-7H) (EA-7L, TA-7C)

C. ADD TO APPENDIX A, FOLLOWING PAGE A-69, THE FOLLOWING DATA(ADD AS PAGE A-69A, B, ETC.) THE ENGINE DESIGNATIONS ARE:
TF41-A-2/-2A/-2B/-2C/-400/-402C/-402D (NAVY ONLY). THE AIRCRAFT DESIGNATIONS ARE: (A-7A/-7E/-7F/-7H) (EA-7L, TA-7C)

D. ELEMENT LIMITS ARE AS FOLLOWS:

	FE	AG	AL	CU
ABNORMAL TREND	*4	*3	*3	*3
NORMAL RANGE	*0-10	*0-6	*0-6	*0-6
MARGINAL RANGE	*11-12	*7	*7	*7
HIGH RANGE	*13-15	*8-9	*8-9	*8-9
ABNORMAL	*16+	*10+	*10+	*10+

E. AVERAGE CONCENTRATION OTHER ELEMENTS: SI = 15, SN = 10, TI = 1, MO = 2.

F. NOTE UNDER CRITERIA TABLE: * USE LAB ADVICE CODE F IN ANY CASE WHERE TF41 ENGINE OIL SAMPLES HAVE CRITICAL WEARMETALS AT THE UPPER LIMIT OF NORMAL RANGE OR ABOVE AND/OR IF THE TREND IS ABNORMAL. OTHER APPROPRIATE CODES MAY BE USED AFTER THE CODE F RECOMMENDATION.

G. NOTES: 1. CAUTION MUST BE EXERCISED WHEN EVALUATING THIS ENGINE DUE TO HIGH OIL CONSUMPTION AND SMALL OIL TANK CAPACITY. USE OF DECISION TABLES ALONE AS A BASIS FOR EVALUATION MAY BE MISLEADING. TREND ANALYSIS MUST BE UTILIZED TO SUCCESSFULLY EVALUATE THIS ENGINE. IT IS ALSO RECOMMENDED THAT TEST RESULTS BE PLOTTED ON GRAPHS TO ASSIST IN EVALUATIONS. A DEVELOPING TREND MAY BE INDICATED WITH INCREASES OF ONE OR TWO PPM IN ONE OR MORE ELEMENTS. IF A DEVELOPING TREND IS SUSPECTED BY SMALL INCREASES OF WEAR METAL(S), ONE OR TWO PPM, MAINTAIN CLOSE SURVEILLANCE. DO NOT (IN BOLD) REQUEST "DRAIN AND FLUSH". USE THE NEXT SAMPLE TO CONFIRM PAST RESULTS. IF THE SUSPECTED DEVELOPING TREND IS 3 PPM OR GREATER IN ONE OR MORE ELEMENTS, IMMEDIATELY NOTIFY MAINTENANCE NOT (IN BOLD) TO ADD OR CHANGE OIL AND REQUEST A CHECK SAMPLE AFTER 30 MINUTES GROUND RUN. IF A TREND CONTINUES TO DEVELOP, IN EITHER SITUATION, NOTIFY THE PROPULSION BRANCH CHIEF AND RECOMMEND POSITIVE MAINTENANCE ACTION BE TAKEN.

NOTE 2. USE LAB ADVICE CODE F IN ANY CASE WHERE TF41 ENGINE OIL SAMPLES HAVE CRITICAL WEAR METALS EXCEEDING THE NORMAL RANGE.

NOTE 3. HIGH SILICON INDICATES CONTAMINATION PROBABLY DUE TO SAMPLING ERROR. HOWEVER, CONSISTENTLY HIGH SILICON OF 30 PPM OR MORE INDICATES CONTAMINATION. FLUSH OIL SYSTEM IN ACCORDANCE WITH

NAVAIR 02B-5EA-6-1 OR NAVAIR 01-45AAE/F-2-4.6 AND SAMPLE AFTER FIVE HOURS OF OPERATION TO ENSURE SILICON REMOVAL.

NOTE 4. INCREASES IN CU BY ITSELF MAY INDICATE DEFECTIVE BEARING. INCREASES IN CU ACCOMPANIED BY INCREASES IN FE MAY ALSO INDICATE ABNORMAL BEARING WEAR AND/OR SEAL RING WEAR. INCREASES IN CR BY ITSELF IN ANY AMOUNT MAY INDICATE ROTATION OF NO. 6 BEARING OUTER RACE IN HOUSING. INCREASES IN CR ACCOMPANIED BY FE MAY INDICATE PISTON RING SEAL WEAR AND COULD RESULT IN EXCESSIVE OIL CONSUMPTION. INCREASES IN AL MAY INDICATE FRETTING INTERNAL GEARBOX COVER AND/OR OIL PUMP. INCREASES IN MG MAY INDICATE ABNORMAL WEAR IN HIGH SPEED GEARBOX.

4. SOURCES OF WEAR:

FE (BOXED) MAIN BEARING RACES, ROLLERS, BALLS, AND SLEEVES. GEARBOX, NO. 2 BEARING AND OIL PUMP GEARS, GEARBOX BEARINGS AND BEARING CARRIERS, NO. 6 BEARING OIL SEAL LINER, EXTERNAL GEARBOX, OIL PUMP AND NOS. 3, 4 AND 5 BEARING SHAFTS, (CHROMIUM PLATING UNDER NO. 4 BEARING INNER RACE IS A REPAIR PROCEDURE) AND NOS. 6 AND 7 BEARING HOUSING. (CHROMIUM PLATING AT SPLIT LINE AND UNDER OUTER RACE IS A REPAIR PROCEDURE.)

FE (BOXED) & CR MAIN BEARING OIL SEAL RINGS

AL (BOXED) INTERNAL GEARBOX, OIL PUMP AND NO. 2 BEARING HOUSING EXTERNAL GEARBOX AIR BLOWN SEALS AND ACCESSORIES DRIVE PADS AND SCAVENGE OIL PUMP HOUSING

CU (BOXED) MAIN BEARING AND GEARBOX CAGES AND OIL PUMP BUSHINGS

NOTE: PROCEDURES TO BE ACCOMPLISHED IN ORDER TO ISOLATE ENGINE OIL PUMP AS CAUSE OF HIGH COPPER CONTENT IN USED ENGINE OIL AND PRECLUDE ENGINE REJECTION:

REMOVE AND REPLACE ENGINE OIL PUMP. REQUEST ENGINEERING INVESTIGATION OF THE PUMP.

FLUSH OIL SYSTEM IN ACCORDANCE WITH NAVAIR 02B-5EA-6-1 OR NAVAIR 01-45AAE/F-2-4.6. TAKE OIL SAMPLE AND PERFORM NOAP TREND ANALYSIS AFTER EACH SHUTDOWN.

IF NOAP TREND ANALYSIS INDICATES ALL WEAR METALS WITHIN LIMITS, ENGINE IS CONSIDERED SERVICEABLE; OTHERWISE, RECOMMEND REJECT ENGINE AND REQUEST ENGINEERING INVESTIGATION.

AG (BOXED) & CU NO. 3 BEARING OIL SEAL AND NOS. 4 AND 5 BEARING OIL SEAL LINER AND NO. 7 BEARING SUMP

5. VALIDATION: THESE CHANGES WERE VALIDATED BY MR. MICHAEL J. CASSADY, JOAP-TSC PENSACOLA FL.

6. RELATED INSTRUCTIONS:

A. FOR PAPER COPY - MAINTAIN THIS IRAC WITH THE APPLICABLE MANUAL BY PLACING OR ATTACHING IT DIRECTLY BEHIND THE TITLE PAGE. MARK THE SPECIFIC CHANGE AREA IN THE MARGIN OF EACH PAGE AFFECTED

MISSING SECTION 2

BT
#3613
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