

**BY ORDER OF THE COMMANDER
36TH WING**

36th WING INSTRUCTION 21-103

5 MAY 2026

Maintenance

**JOINT OIL ANALYSIS PROGRAM
(JOAP)**



COMPLIANCE WITH THIS PUBLICATION IS MANDATORY

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(Colonel Matthew S. Drossner)

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This publication implements responsibilities and establishes procedures applicable to the Joint

Oil Analysis Program (JOAP) and all unit commanders, staff sections, maintenance officers, supervisors and JOAP monitors at all levels of command that require JOAP laboratory support. It applies to all units who require support from the Andersen Air Force Base JOAP Laboratory. This publication does not apply to the Air National Guard (ANG) or US Air Force Reserve and their units. Deployed units shall make every effort to comply with this instruction while assigned to Andersen Air Force Base. This instruction implements and expands requirements and procedures in accordance with (IAW) AFPD 21-1 *Air and Space Maintenance*, DAFI 21-124 *Air Force Oil Analysis Program*, DAFI 21-101 *Aircraft and Equipment Maintenance Management*, DAFI 21-101_PACAFSUP *Aircraft and Equipment Maintenance Management*, and TO 33-1-37-1/2/3 (NAVAIR 17-15-50.1/2/3) *Joint Oil Analysis Program Manual* and applicable aircraft technical orders. Ensure all records generated as a result of processes prescribed in this publication adhere to AFI 33-322, *Records Management and Information Governance Program*, and are disposed in accordance with the Air Force Records Disposition Schedule, which is located in the Air Force Records Information Management System. Refer recommended changes and questions about this publication to the office of primary responsibility (OPR) using the DAF Form 847, *Recommendation for Change of Publication*; route DAF Forms 847 from the field through the appropriate functional chain of command. This publication may be supplemented at any level, but all supplements must be routed to the OPR of this publication for coordination prior to certification and approval. The authorities to waive wing, unit, delta or garrison level requirements in this publication are identified with a Tier ("T-0, T-1, T-2, T-3") number following the compliance

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SUMMARY OF CHANGES

This document has been revised. This rewrite of 36WGI 21-103 includes updated references from AFI's to DAFI/DAFMAN, an updated appointment letter template, a correction of the JOAP Program Office location and the 36MXS/NDI email org box was also deleted.

Chapter 1

GENERAL

1.1. Oil samples will be delivered to the. Nondestructive Inspection Laboratory in building 17006 within 75 minutes of engine shutdown IAW DAFI 21-101. Owing unit MXG/CC may adjust the 2 ½ hour rule as needed to accommodate flying windows. Customers delivering samples to the lab during non-duty hours will place samples in the “Sample Drop off” container with date and time of drop off annotated on the outside of the envelope. Upon delivery, notify the MOCC at 366-4321 or the 36 MXS Production Superintendent at 362-4631 or 671-688-1352.

1.2. Production Superintendents of organizations requiring oil analysis will. Appoint a primary and alternate JOAP monitor in writing when deployed to Andersen AFB (See [Attachment 2](#)). JOAP monitor appointment letters will be forwarded to the Nondestructive Inspection Laboratory personnel by email or dropped off to the Nondestructive Inspection Laboratory in building 17006. The appointment letter must be updated when changes occur, and NDI section will check quarterly to ensure letters are current.

1.3. All engines, transmissions or gearboxes requiring oil-wetted maintenance or an oil change. Will be placed on surveillance, code C, in accordance with home station requirements. If an engine, transmission, or gearbox is not accompanied with cross country paperwork and the home station laboratory cannot be reached, then the item will be placed on code C for a minimum of 3 flights, or 10 hours, to establish the required trend analysis.

Chapter 2

JOAP MONITORS

- 2.1. Newly assigned JOAP monitors will.** Report to the Nondestructive Inspection Laboratory within 30 days for an orientation on: basic workings of JOAP, proper procedures and monitor responsibilities.
- 2.2. Will be the primary points of contact concerning paperwork discrepancies, laboratory requests and maintenance feedback for all oil analysis transactions.**
- 2.3. Will ensure drain and flush procedures are not performed simply to eliminate abnormal or high wear metal trends.** Unless recommended by the Nondestructive Inspection Laboratory Technician.

Chapter 3

NONDESTRUCTIVE INSPECTION LABORATORY

3.1. Will train all primary and alternate JOAP monitors on their responsibilities.

3.2. Will ensure the delivery log is maintained and include. A/C tail number, time sample taken, time sample delivered, time customer notified of OAP code, and the name of the individual notified.

3.3. Will immediately notify the owning organization of any suspect oil sample and request an immediate resample.

3.4. NDI Section Chief will. Notify the Fabrication Flight Chief and MXS Supervision whenever a spectrometer is decertified or prior to reporting a Spectrometer as “Reported Maintenance Status” to the JOAP Program Office at Tinker AFB, OK.

Chapter 4

REQUIREMENTS FOR DEPLOYMENT/REDEPLOYMENTS.

4.1. When aircraft deploy to Andersen AFB. The owning organization is responsible for ensuring all JOAP data is immediately delivered to the NDI laboratory so the JOAP computer system can be updated to ensure aircraft are coded correctly and not placed in a surveillance status. Prior to departing from Andersen AFB, the owning organization is responsible for obtaining and ensuring JOAP data stays with the aircraft during redeployment.

4.2. Units departing Andersen AFB on a weekend. Will request and pick up JOAP records from the Nondestructive Inspection Laboratory in Bldg. 17006 no later than close of business on the last duty day prior to departure. Units must notify the Nondestructive Inspection Laboratory at 366-3138 or 366-2292, two hours in advance to prepare the aircraft documents.

CHARLES D. COOLEY
Brigadier General, USAF
Commander

Attachment 1

GLOSSARY OF REFERENCES AND SUPPORTING INFORMATION

References

DAFPD 21-1 *Air and Space Maintenance*, 21 Feb 2024

DAFI 21-124 *Air Force Oil Analysis Program*, 14 Mar 2021

DAFI 21-101 *Aerospace Equipment Maintenance Management*, 20 Dec 2023

DAFI 21-101_PACAFSUP *Aerospace Equipment Maintenance Management*, 20 Dec 2023

TO 31-1-37-1/2/3(NAVAIR 17-15-50.1/2/3) *Joint Oil Analysis Program*, 15 Nov 2024

Adopted Forms

DAF Form 847, *Recommendation for Change of Publication*

Abbreviations and Acronyms

AFDPO—Air Force Departmental Publishing Office

JOAP—Joint Oil Analysis Program

MOCC—Mission Operation Control

NDI—Nondestructive Inspection

OAP—Oil Analysis Program

Attachment 2

APPOINTMENT LETTER TEMPLATE

Figure A2.1. Appointment Letter Template.



DEPARTMENT OF THE AIR FORCE
HEADQUARTERS 36TH WING (PACAF)
ANDERSEN AIR FORCE BASE GUAM

Date

MEMORANDUM FOR 36MXS/MXMFN

FROM: UNIT/OFFICE SYMBOL

SUBJECT: Appointment of Oil Analysis Program (OAP) Monitors

1. In accordance with 36 Wing Instruction 21-103 *Joint Oil Analysis Program*, paragraph 1.2, the owning aircraft maintenance unit production superintendent is required to appoint an OAP Monitor.

2. The following individual(s) are appointed as OAP Monitors:

Name:

Rank:

Title:

DEROS:

3. For any questions, please contact 36 MXS/MXMFN at DSN: 315-366-3138.

FIRST MI. LAST, Rank, USAF
Pro Super, Unit