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Maintenance

JOINT OIL ANALYSIS PROGRAM



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This instruction implements AFR 66-39; T.O. 00-20-5; T.O. 42B2-1-0, Section II; and T.O. 33-1-37, Volumes 1 and 2. It establishes responsibilities for conducting an effective Joint Oil Analysis Program for the 319th Air Refueling Wing, 79th Rescue Flight (79 RQF), and transient aircraft at Grand Forks AFB ND. It applies to all military and civilian personnel assigned and/or attached to the 319th Air Refueling Wing.

1. Responsibilities:

1.1. The 319 Maintenance Squadron (319 MXS) Nondestructive Inspection Element Chief is designated as the Base JOAP Monitor and will monitor overall program implementation and advise 319 MXS supervision of any instances of non-compliance. The Joint Oil Analysis Program (JOAP) monitor will:

1.1.1. Coordinate any oil change action with the 319 MXS Propulsion Flight Chief, 319th Aircraft Generation Squadron (AGS), 79 RQF contract manager, and JOAP Lab Supervisor.

1.1.2. Ensure the workcenter accomplishing the final corrective action on any Red Cap oil sample properly clears the Red Cap entry on the AFTO Form 781A.

1.2. The 319 MXS NDI Laboratory will:

1.2.1. Monitor the overall JOAP.

1.2.2. Notify Maintenance Aircraft Coordination Center (MACC) of a need for a check sample immediately after analyzing a sample with high metal contents.

1.2.3. Ensure Red Cap samples are processed immediately.

1.2.4. Notify MACC of the need for Red Cap sample(s); log the coordinator's name, rank, date, and time on the next open line of the Red Cap Status Board.

- 1.2.5. Notify MACC if the sample is not received within one hour from the time requested, make an entry in the Automated aircraft Maintenance System (G081) and AFTO Form 781A grounding the aircraft in accordance with T.O. 33-1-37, Volume 2, until the sample is received and analyzed.
 - 1.2.6. Notify 319 MXS Propulsion Superintendent, applicable maintenance supervision, and MACC on results of all Red Cap samples and appropriate code actions.
 - 1.2.7. Notify MACC and applicable maintenance supervision whenever a continuous Red Cap sampling (Code "C" or "E") is to be implemented or discontinued.
 - 1.2.8. Prepare letters of deficiency and forward to applicable section JOAP Monitor.
 - 1.2.9. Prepare local JOAP results and recommendation letters and submit the oil analysis worksheet for all abnormal wear metal content to the 319 MXS Propulsion Superintendent for maintenance action feedback.
 - 1.2.10. Follow up on recommended maintenance action by contracting the applicable maintenance supervision and/or 319 MXS Propulsion Superintendent.
 - 1.2.11. Notify 319 MXS Maintenance Supervision, Fabrication Flight Chief, MACC, Precision Measurement Equipment Laboratory (PMEL), numbered air force, and command headquarters when JOAP machine is in reported maintenance status.
 - 1.2.12. Package and dispatch samples to an alternate JOAP Laboratory when spectrometer remains out of commission for more than 12 hours.
 - 1.2.13. Notify applicable section JOAP Monitor when the alternate JOAP Lab must be used.
 - 1.2.14. Submit monthly B003 diskette to Kelly AFB, Texas.
 - 1.2.15. Notify the appropriate unit when aircraft returns from TDY with missing JOAP records.
 - 1.2.16. Contact the losing organization requesting missing JOAP records for newly assigned aircraft.
- 1.3. The 319 MXS Propulsion Superintendent will:
 - 1.3.1. Notify JOAP Laboratory of any square engines being shipped.
 - 1.3.2. Ensure JOAP Laboratory is promptly notified (via G081) of any engine change.
 - 1.4. The 319 AGS and the 79 RQF contract manager will:
 - 1.4.1. Appoint primary and alternate JOAP Monitors for each aircraft maintenance unit and notify the JOAP Laboratory by letter with the monitor's name, grade, and duty phone number.
 - 1.4.2. Ensure positive response, forms documentation, and notification of JOAP Monitor, MACC, and JOAP Laboratory of maintenance actions to be taken as a result of JOAP Laboratory recommendations.
 - 1.4.3. Assist 319 MXS Propulsion Superintendent and JOAP Laboratory supervisors in determining appropriate flight line maintenance actions on "Drain and Flush."
 - 1.4.4. Ensure compliance of continuous Red Cap sampling (Code "C" or "E").
 - 1.4.5. Ensure the JOAP Laboratory receives Red Cap samples after all maintenance is performed on engine oil wetted system.

1.4.6. Ensure DD Form 2026, Oil Analysis Request, is completed and forwarded in accordance with T.O. 33-1-37. Print name and engine position number and specify in block 34 the reason for the sample if other than routine.

1.4.7. Ensure the aircraft serial number and engine position number are annotated on the outside of the sample container packet.

1.4.8. Ensure proper procedures are followed for compliance with JOAP for deploying aircraft. This includes ensuring all samples are delivered as soon as possible.

1.5. The MACC Senior Coordinator will:

1.5.1. Input "Red Caps due after engine runs" into G081, wing program 9018 remarks section. (The remark will show on 8020 screen.)

1.5.2. Monitor Red Cap samples until notified by the JOAP Laboratory that the sample is complete.

1.5.3. Notify 319 MXS Production Superintendent for recall of NDI standby personnel when analysis of Red Cap or transient aircraft samples are required after normal duty hours.

1.6. The 319 MXS Transient Alert personnel will:

1.6.1. Review the AFTO Forms 781A on all transient aircraft for sampling interval and take JOAP samples as required.

1.6.2. Deliver JOAP samples and accompanying DD Form 2026 to the JOAP Laboratory, return the DD Form 2026 to transient aircraft, and place it in the aircraft forms.

2. Forms Prescribed:

2.1. DD Form 2026 and AFTO Form 781.

ROBERT P. CROZAT, Colonel, USAF
COMMANDER