

ENGINE-DRIVEN PUMP - INSPECTION/CHECK

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to do an inspection/check of the EDP (Engine Driven Pump).
- B. The procedures in this section are given in the sequence below. The tasks identified with (◆) are part of the Scheduled Maintenance Requirements Document (SMRD).

<i>TASK NUMBER</i>	<i>DESCRIPTION</i>	<i>EFFECTIVITY</i>
29-10-03-200-801-A	EDP - INSPECTION	ALL

TASK 29-10-03-200-801-A

EFFECTIVITY: ALL

2. EDP - INSPECTION

A. General

- (1) This inspection/check procedure is applicable when a loss of hydraulic fluid from the hydraulic reservoir is detected.

NOTE: The limit of the shaft seal leakage for the EDP is five (5) drops in ten (10) minutes (refer to Vickers CMM 29-11-15). Thus, if the engines operate during a sufficiently long period, the sight glass will be filled with hydraulic fluid. Sometimes, the hydraulic fluid is mixed with some engine oil. If this occurs the component leakage limits must be analyzed separately (refer to RRA FIM CSP34064, chapter 79-37-00).

B. References

REFERENCE	DESIGNATION
AMM TASK 29-00-01-910-801-A/200	HYDRAULIC FLUID - DECONTAMINATION
AMM TASK 29-10-03-000-801-A/400	EDP - REMOVAL
AMM TASK 29-10-03-400-801-A/400	EDP - INSTALLATION
AMM TASK 29-10-08-000-801-A/400	FILTERING ELEMENT - REMOVAL
AMM TASK 29-10-08-200-801-A/600	DIFFERENTIAL PRESSURE INDICATOR - INSPECTION
AMM TASK 71-12-01-000-801-A/400	ENGINE LOWER COWLING - OPENING
AMM TASK 71-12-01-400-801-A/400	ENGINE LOWER COWLING - CLOSING
CMM 29-11-15	-
RRA FIM CSP34064	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
413	413	LH Lower Cowling
423	423	RH Lower Cowling

D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Torque wrench	To measure the torque necessary to move the EDP shaft	

E. Auxiliary Items

Not Applicable

F. Consumable Materials

Not Applicable

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	LH engine (system 1) and (or) RH engine (system 2)

I. Preparation

SUBTASK 841-002-A

- (1) Open the lower cowling ([AMM TASK 71-12-01-000-801-A/400](#)).

J. Inspection of EDP

SUBTASK 280-002-A

- (1) If the EDP was operated for less than 15 minutes with empty reservoir, no action is necessary.
- (2) If the EDP was operated for more than 15 minutes and less than 1 hour with empty reservoir, do as follows:
 - (a) Remove the case drain and pressure filter bowl ([AMM TASK 29-10-08-000-801-A/400](#)) and visually examine the hydraulic fluid for contamination.
 - 1 Decontaminate the hydraulic fluid ([AMM TASK 29-00-01-910-801-A/200](#)), if the presence of metallic particles is detected in it.
 - (b) Remove the mechanical hydraulic pump ([AMM TASK 29-10-03-000-801-A/400](#)).
 - 1 Drain the hydraulic fluid from the EDP. If metallic particles are detected, discard the pump.
 - 2 Make sure that the torque necessary to move the EDP shaft is a maximum of 2.0 N.m (18.0 lb.in). For a continuous rotation, the torque necessary is a maximum of 1.5 N.m (13.0 lb.in). If the torque is higher than one of these two values, discard the pump.
- (3) If the EDP was operated for more than 1 hour with empty reservoir, do as follows:
 - (a) Replace the pump ([AMM TASK 29-10-03-000-801-A/400](#)) and ([AMM TASK 29-10-03-400-801-A/400](#)).
 - (b) Visually examine the pump filters ([AMM TASK 29-10-08-200-801-A/600](#)).
 - (c) Decontaminate the hydraulic fluid ([AMM TASK 29-00-01-910-801-A/200](#)), if metallic particles are detected in it.

K. Follow-on

SUBTASK 842-002-A

- (1) Close the lower cowling ([AMM TASK 71-12-01-400-801-A/400](#)).

