

DIRECTORATE GENERAL BORDER ROADS
E4 TECH
GENERAL MAINTENANCE INSTRUCTIONS NO. 172
ON
MARSHALL PF-45 PAVER FINISHER

SUMMARY

1. A defect report on Marshall PF-45 PVER FINISHER was raised by Project BEACON " NO 1 bearing 1055-2 fitted with screw conveyor broken".

ITEM AFFECTED

2. No. 1 bearing.

3. Causes

(a) If the bearing is not greased properly, it is likely to overheat leading to failure.

(b) If the Paver is not clean properly after the days' work. The conveyor shaft gets jammed, and restarting next day may impose excessive strain leading to failure.

4. ACTION BY

All the user units will adhere to lubrication as per Appendix 'A'.

GMI-172
25 May 1983

APPENDIX 'A' TO GMI-172

LUBRICATION CHART

S/No	Parts to be lubricated	No of Points	Type of lubricant
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TWICE A DAY

1.	Auger shaft bearing	4	C
2.	Tamper bearing	8	C
3.	Traction clutch gluts	1	B

ONCE A DAY

4.	All Roller Chains	8	B
5.	Steering	3	C
6.	Conveyor Idle Roller	2	C
7.	Tamper Counter shaft bearings	3	C
8.	Main Drive Shaft	1	C
9.	Drive Shaft Bearing	2	C
10.	Drive Shaft universal joints	2	C
11.	Conveyor Clutch Gluts	2	C
12.	Conveyor Shaft	2	C
13.	Auger chain sprocket bearing	6	C

ONCE A WEEK

14.	Bumper Rollers	4	C
15.	Front Wheels	2	C
16.	Conveyor Auger Drive Bearings	4	C
17.	Conveyor Idler Sprocket	2	C
18.	Conveyer Chains		C
19.	All universal joints	11	C
20.	Front king pins	2	C

ONCE A MONTH

21.	Shaft leavers, Rod Ends etc		C
22.	Drive wheel bearings	2	C
23.	Screed Adjustment	8	C
24.	Screed lift shaft	2	C

Contd---P/2

EVERY 50 HOURS

- | | | |
|-----|--|---|
| 25. | Check & fill Hydraulic oil tank | B |
| 26. | Clean and refill hydraulic tank breather | B |
| 27. | Check brake supply tank and fill brake fluid | A |
| 28. | Check and fill traction transmission | A |
| 29. | Check and fill conveyor transmission | A |
| 30. | Check and fill inputs transmission | A |
| 31. | Check and fill steering gear box | A |

S/No	Parts to be lubricated	No of Points	Type of lubricant
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EVERY SIX MONTHS

32. Change lubricants in all transmission

RECOMMENDED LUBRICANTS

S/No	Type of lubricants	Indian Oil	Shell Company	ESSO
1	A	Mobilube GX 90 or Mobile	Shell Spirax 90 EP or Shell Omala oil 72	ESSO Gear oil GP-90
2.	B	Engine oil	Engine oil	Engine oil
3.	C	Mobile grease	Alvania Grease 3	ESSO Multi purpose Grease H
4.	D	Mobile DTE oil light or Delvac special	Shell Tellus oil 72	Teresso 43

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