Product Engineering Physical Test Laboratories

BRAKE DYNAMOMETER INSTALLATION SHEET

Procedure DM- SPECIAL

E.O. P1453-200
DATE: 1-5-80
TEST NO. XA-464

TECH. _____ TEST NO. XA-464 SHEET NO. 3

TEST CONDITIONS:

Setup No.: 90 Broke Location: R.R. G.T.W.: 3466 Lbs. Roll. Rad: 0.983 Ft.
Brake Balance: 70/30 % Flywheel Discs: 4.0 Inertia: 546 Lb.-Ft. 2

TYPE BRAKE: 1982 "J" CAR 200 X 45 mm DUO-SERVO REAR DRUM

DISC BRAKE:

Lining Material: _____ Description _____
Rotor Material: _____ Type of Finish: _____
Surface Finish (Microinches - RMS): _____ Rotor Diameter: _____
Rotor Thickness: _____ Hub & Rotor Weight: _____
Caliper Piston Diameter: _____

DRUM BRAKE:

Lining Material: Pri. ABEX 931-83 X 2, RIVETS
Sec. ABEX 931-83 X 3, RIVETS
Drum Material: PROD. NON FINNED Type of Finish: PROD.
Surface Finish (Microinches) 100 - 110 Drum Diameter: 7.877 IN.
Diametral Clearance: .030 IN. Hub & Drum Weight: 7.38 LBS.
Wheel Cylinder Diameter: 17.5 mm

SPECIAL INSTRUCTIONS: Install a plug type thermocouple .040 in. below the rubbing surface on the horizontal centerline adjacent to the backing plate side of the secondary shoe web.

LIMIT LINE PRESSURE TO 1200PSI

PURPOSE OF TEST: To evaluate effectiveness

SCHEDULE	SHEET NO.
1. Make one stop at 300 PSI at 600 PSI/sec. from each of the following speeds; 20, 30, 40, and 60 MPH. Initiate at 100 °F.	5 & 6
2. Repeat item no 1 at 500 PSI. @1000 PSI/sec.	7
3. Deceleration: 30, 60, and 80 MPH.	8
4. Burnish: 200 stops from 40 MPH. at 12 FT/SEC^2 at 270 °F. initial lining temp.	4
5. Repeat item no. 1	9
6. Repeat item no. 2	10
7. Repeat item no. 3	11
8. Make a sufficient number of stops from 40 MPH. at 500 PSI. at 45 sec. int. to heat brake from 150 °F. to 400 °F. Run a total of ten heat cycles.	
9. After the tenth heat cycle repeat items no. 1, 2 and 3 at 400 °F.	12, 13, 14, 15
10. Repeat item s no. 1, 2 and 3 at 100 °F.	16, 17, 18
11. Repeat item no. 4 except make only 35 stops.	4
12. Repeat items no. 1, 2 and 3 at 100 °F.	19, 20, 21
NOTE: BRAKE ROUGHNESS DUE TO NO OUTPUT FILTERING (BAND PASS FILTER IS MALFUNCTIONING)	

DM-2367 Rev. 3-76

SC1 02629