



DYNOTHERM	Doc No: 410 09 17
Issue Date: 24/10/2005	Revision: 0
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material

DNAS (SABS APPROVED)

LABORATORY DIVISION

TECHNICAL DATA SHEET

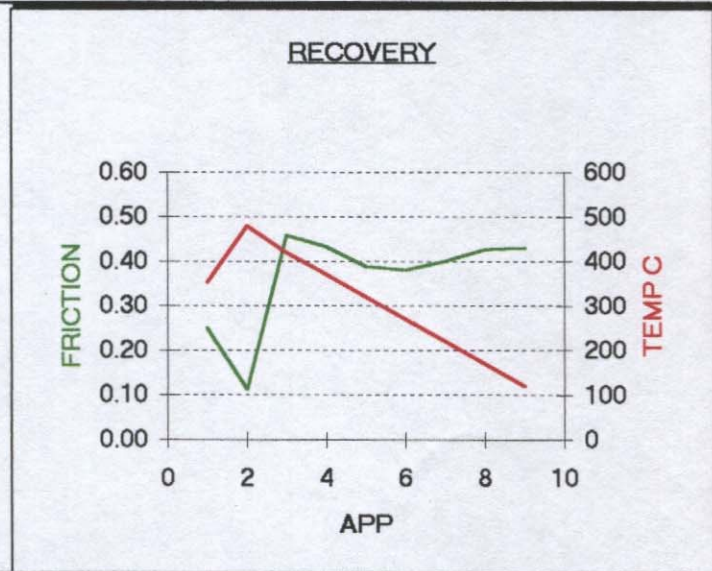
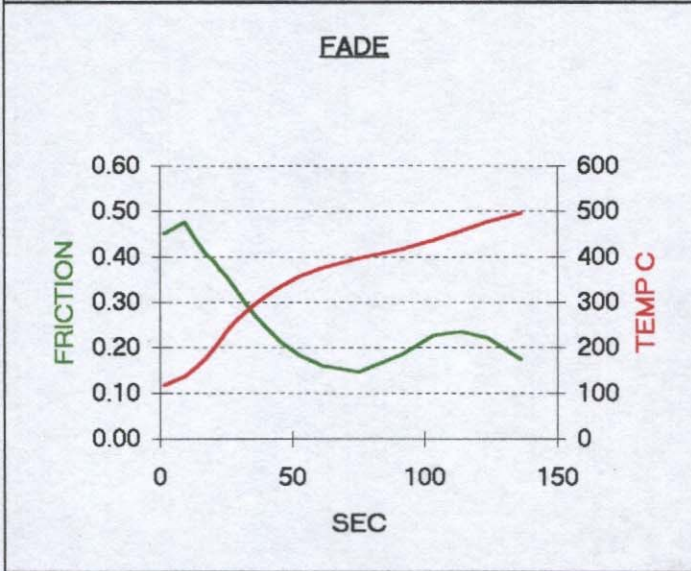
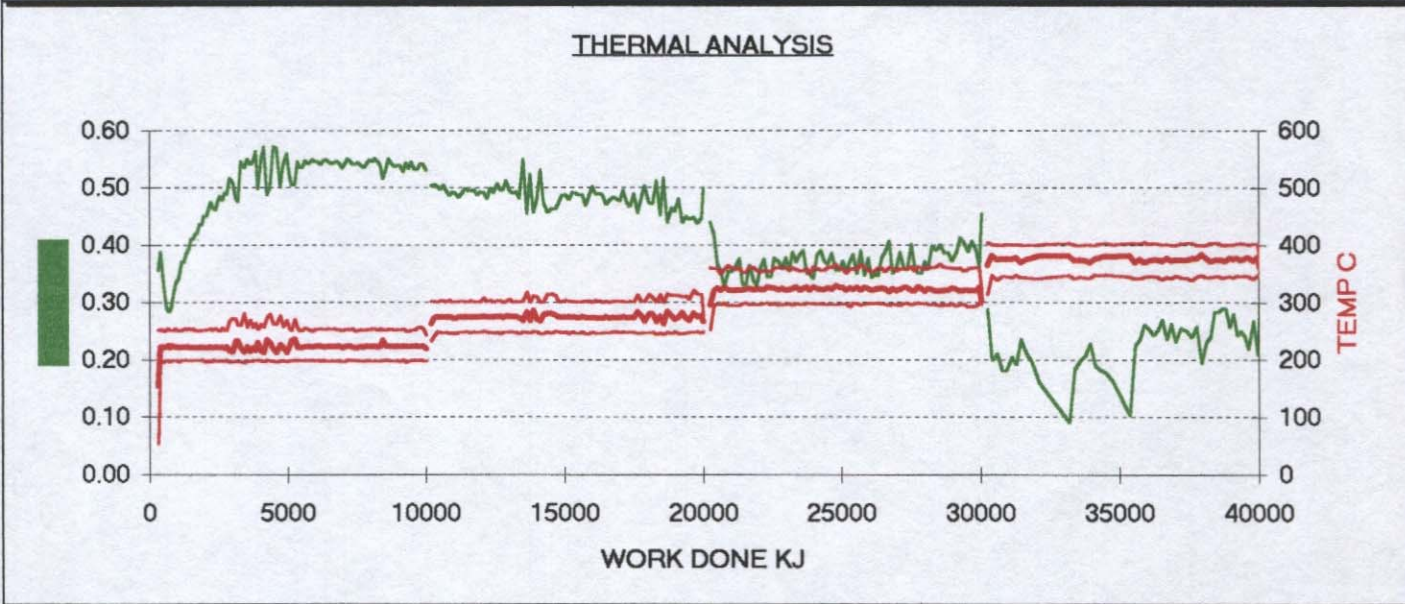
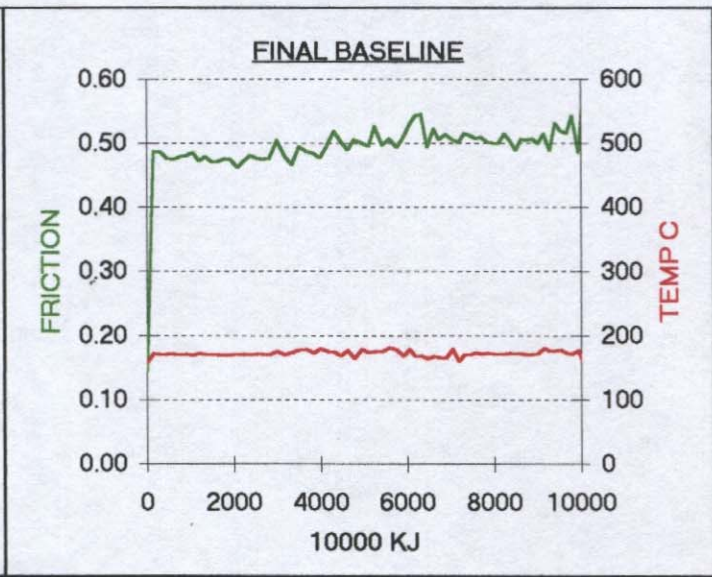
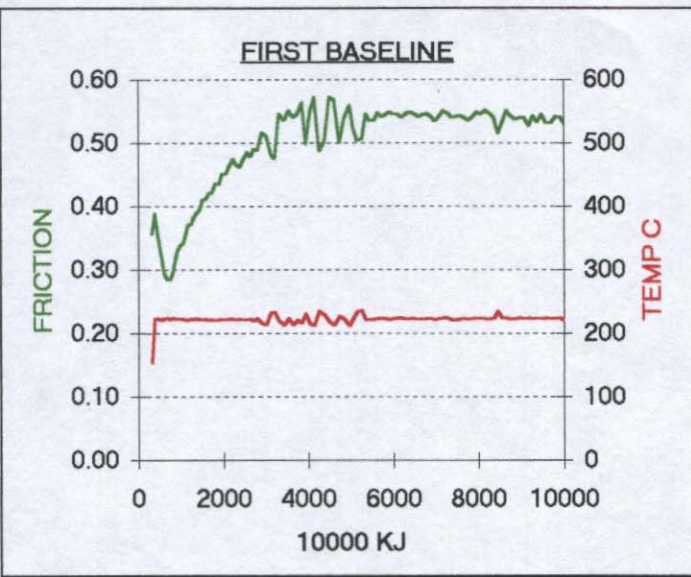
DESCRIPTION: ASBESTOS FREE DRUM BRAKE MATERIAL
COLOUR: DARK GREY

PHYSICAL PROPERTIES

NOMINAL COEFFICIENT OF FRICTION	0.48	μ (see graph)
ULTIMATE TENSILE STRENGTH	200	Kg/cm ²
ULTIMATE SHEAR STRENGTH	250	Kg/cm ²
DENSITY SG	1.94<2.0	g/cm ³
NOMINAL HARDNESS	23	HB
WEAR INDEX	MJ/cm ³	(see graph)

RECOMMENDED OPERATING CONDITIONS

MAXIMUM SURFACE PRESSURE	180 Kg/cm ²
MAXIMUM RUBBING SPEED	20 M/S
MAXIMUM CONTINUOUS TEMPERATURE	380 °C
MAXIMUM INTERMITTENT TEMPERATURE	420 °C
MAXIMUM PEAK TEMPERATURE	480 °C



Average Speed (m/s): 4.97
 Average Applied Force (kg): 484.99

RUN: DNAS2
 Location: C:\DYNODATA 15/7/2005

Material Safety Data Sheet

PRODUCT IDENTIFICATION

PRODUCT NAME Non Asbestos Friction Material (DNA S)

DESCRIPTION Asbestos free drum brake material

HAZARD IDENTIFICATION PRIOR TO USE

No known hazards prior to use.

HAZARD IDENTIFICATION AFTER USE

Potentially hazardous materials contained in friction material dust of compound. Which may include:

- Fibre Glass
- Ceramic Fibre
- Kevlar
- Phenolic Resin
- Iron Oxide
- Carbon dust

Which may cause irritation of inhalation; skin; eyes; ingestion, as a result of continuous exposure.

Non flammable. Combustible at prolonged exposure to naked flame. Self extinguishing when flame is removed.

PREVENTATIVE MEASURES

Protection against inhalation use dust mask for continuous exposure to meet requirements of EN149(CE0086) category FF2.

Brake assembly should be rinsed with water or vacuumed where possible. Dusting with compressed air is not recommended.

STORAGE

Oil and solvent free environment.

DISPOSAL

Disposal to be carried out in accordance with local regulations.

APPROVED BY:



Mr. B. Ndlovu
Laboratory Technician