VOLUME = 1.3576084e+07 MM^3

SURFACE AREA = 4.8369540e+06 MM^2

AVERAGE DENSITY = 2.0685823e-06 KILOGRAM / MM^3

MASS = 2.8083247e+01 KILOGRAM

CENTER OF GRAVITY with respect to PELVIS coordinate frame:

X Y Z -2.2304259e+01 5.2762800e-01 8.6435026e+01 MM

INERTIA with respect to PELVIS coordinate frame: (KILOGRAM \* MM^2)

INERTIA TENSOR:

Ixx Ixy Ixz 6.3676484e+05 -3.2063130e+03 7.1424404e+04

Iyx Iyy Iyz -3.2063130e+03 1.3217838e+06 -1.6823031e+03

Izx Izy Izz 7.1424404e+04 -1.6823031e+03 1.1976711e+06

INERTIA at CENTER OF GRAVITY with respect to PELVIS coordinate frame: (KILOGRAM \* MM^2)

INERTIA TENSOR:

Ixx Ixy Ixz 4.2694670e+05 -3.5368065e+03 1.7283576e+04

Iyx Iyy Iyz -3.5368065e+03 1.0980026e+06 -4.0155143e+02

Izx Izy Izz 1.7283576e+04 -4.0155143e+02 1.1836924e+06

PRINCIPAL MOMENTS OF INERTIA: (KILOGRAM \* MM^2)

I1 I2 I3 4.2653364e+05 1.0980185e+06 1.1840897e+06

ROTATION MATRIX from PELVIS orientation to PRINCIPAL AXES:

0.99973 -0.00512 0.02285

0.00525 0.99997 -0.00560

-0.02282 0.00572 0.99972

ROTATION ANGLES from PELVIS orientation to PRINCIPAL AXES (degrees):

angles about x y z 0.321 1.309 0.294

RADII OF GYRATION with respect to PRINCIPAL AXES:

R1 R2 R3 1.2324037e+02 1.9773391e+02 2.0533767e+02 MM

---------------------------------------------

MASS PROPERTIES OF COMPONENTS OF THE ASSEMBLY

(in assembly units and the PELVIS coordinate frame)

DENSITY MASS C.G.: X Y Z

PH0002 MATERIAL: UNKNOWN

2.06858e-06 2.80832e+01 -2.23043e+01 5.27628e-01 8.64350e+01