



$$\sum F_x = 0 : O_x - 3000 \sin 30^\circ = 0, \quad \underline{O_x = 1500 \text{ N}}$$

$$\sum F_y = 0 : O_y + 1400 - 500(9.81) - 3000 \cos 30^\circ = 0$$

$$\underline{O_y = 6100 \text{ N}}$$

$$\begin{aligned} \sum M_o = 0 : & M_o + 1400(1.2) - 500(9.81)(2.4) \\ & + 15000 - (3000 \cos 30^\circ)(4.8) = 0 \end{aligned}$$

$$\underline{M_o = 7560 \text{ N}\cdot\text{m}}$$

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