

$$\begin{aligned}
& (\forall X. ((AdultF(X) \rightarrow DIAMOND0F(X)) \wedge \\
& (MinorF(X) \rightarrow PersonF(X)) \wedge \\
& \neg(MinorF(X) \wedge \\
& AdultF(X)) \wedge \\
& (AdultF(X) \rightarrow PersonF(X)) \wedge \\
& \Box_F((DIAMOND1P(X) \leftrightarrow \Diamond_F MinorP(X)) \wedge \\
& (\bigcirc_F DIAMOND0F(X) \leftrightarrow (DIAMOND0F(X) \vee \bigcirc_F MinorF(X)))) \wedge \\
& (AdultF(X) \leftrightarrow AdultP(X)) \wedge \\
& (MinorF(X) \leftrightarrow MinorP(X)) \wedge \\
& (DIAMOND0F(X) \leftrightarrow DIAMOND1P(X)) \wedge \\
& (PersonF(X) \leftrightarrow PersonP(X))))
\end{aligned}$$