INTERVAL TYPE

Project Name: Pulsarlube PLC

CONTENTS

PROGRAM

Behavior

Functional level:	Level 5.0
Starting mode:	Start In Previous State
Waichdog:	250 ms
Fallback behavior:	Fallback value

Memory consumption

A successful compilation is required to obtain memory information.

Application Architecture

Master Task

Scan mode:	Normal
POU list:	1 - COMMON
	2 - INTERVAL_LUB_1
	3 - INTERVAL_LUB_2
	4 - INTERVAL_LUB_3

Periodic Task

Period:	255 ms

POU

Master Task

1-COMMON

Master Task

Rung0 - LUBRICATOR START

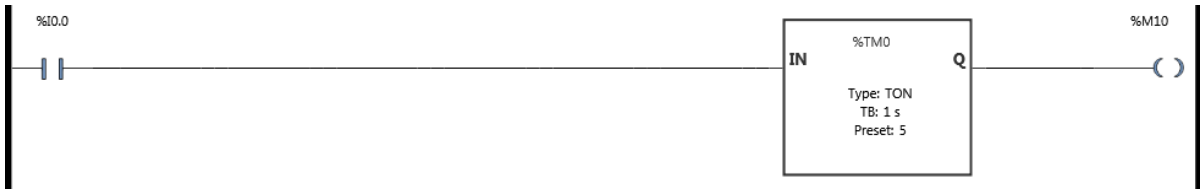
Variablesused:

%M0	LUBRICATOR_START_BIT	Auto Start Bit
%M1	LUBRICATOR_STOP_BIT	Lubricator Stop Switch - If using the HMI
%S12	SB_RUNMODE	The controller is running

2-INTERVAL_LUB_1

Master Task

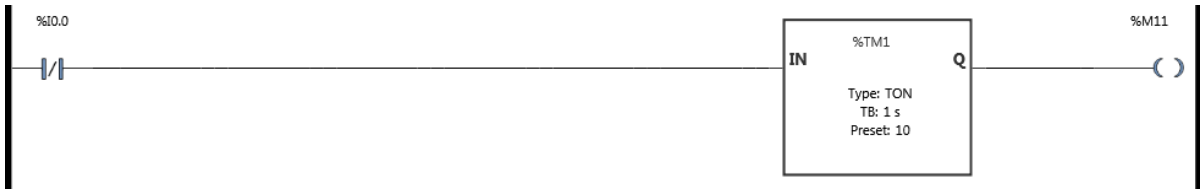
Rung0 - OVERLOAD CHECK



Variablesused:

%I0.0	INT_IN_LUB_1	Interval Mode Input Signal - Lubricator #1
%M10	OVERLOAD_INT_1	Overload Fault Signal - Lubricator #1
%TM0	OVERLOAD_CHECK_INT_1	Overload Check Timer - Lubricator #1

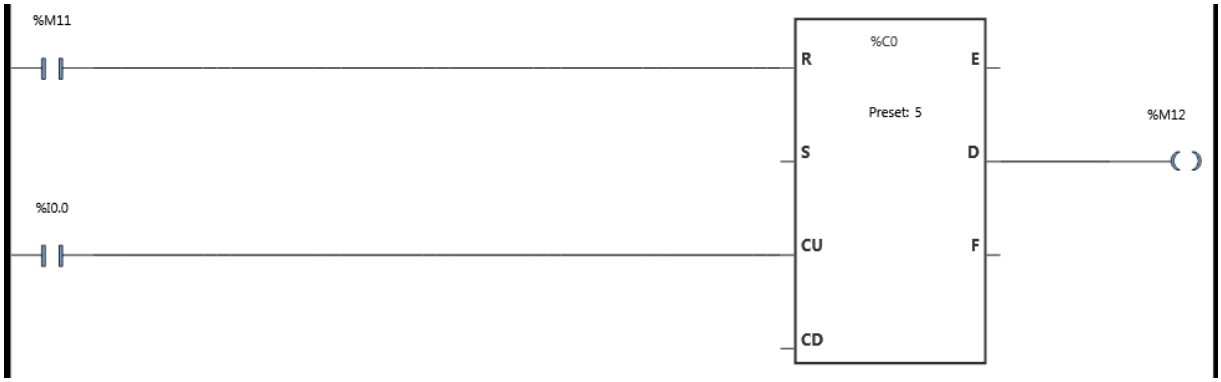
Rung1 - NO ALARM



Variablesused:

%I0.0	INT_IN_LUB_1	Interval Mode Input Signal - Lubricator #1
%M11	NO_FAULT_INT_1	No Fault Signal - Lubricator #1
%TM1	NO_FAULT_CHECK_INT_1	No Fault Check Timer - Lubricator #1

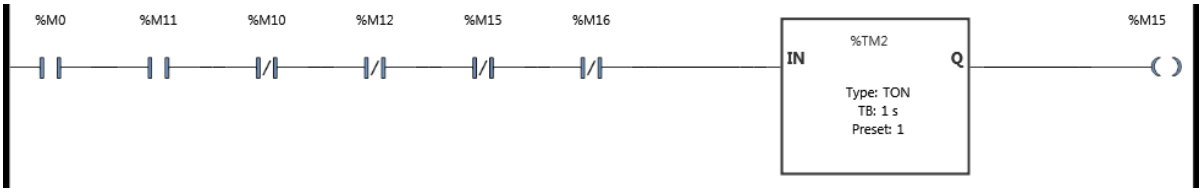
Rung2 - END OF CYCLE



Variablesused:

%C0	END_OF_CYCLE_CHECK_INT_1	End of Cycle Check Counter - Lubricator #1
%I0.0	INT_IN_LUB_1	Interval Mode Input Signal - Lubricator #1
%M11	NO_FAULT_INT_1	No Fault Signal - Lubricator #1
%M12	END_OF_CYCLE_INT_1	End of Cycle Signal - Lubricator #1

Rung3 - COUNTER_START



Variablesused:

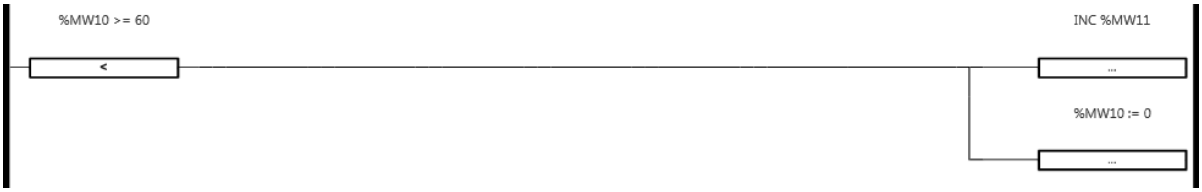
%M0	LUBRICATOR_START_BIT	Auto Start Bit
%M10	OVERLOAD_INT_1	Overload Fault Signal - Lubricator #1
%M11	NO_FAULT_INT_1	No Fault Signal - Lubricator #1
%M12	END_OF_CYCLE_INT_1	End of Cycle Signal - Lubricator #1
%M15	LUBRICATOR_SEC_INT_1	Running Time (Sec) Signal - Lubricator #1
%M16	INTERVAL_TIME_ON_INT_1	Interval Time Finished Signal - Lubricator #1
%TM2	SEC_TIMER_INT_1	Second Time Data Timer - Lubricator #1

Rung4 - COUNTER_SEC

Variablesused:

%M15	LUBRICATOR_SEC_INT_1	Running Time (Sec) Signal - Lubricator #1
%MW10	SEC_INT_1	Second Time Data - Lubricator #1

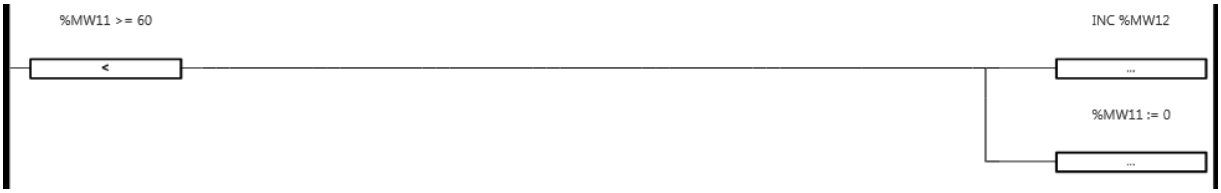
Rung5 - COUNTER_MIN



Variablesused:

%MW10	SEC_INT_1	Second Time Data - Lubricator #1
%MW11	MIN_INT_1	Minute Time Data - Lubricator #1

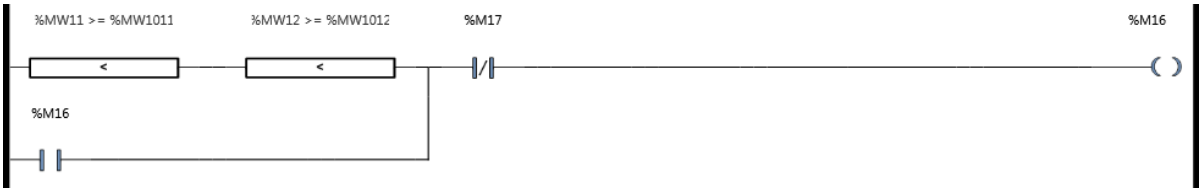
Rung6 - COUNTER_HOUR



Variablesused:

%MW11	MIN_INT_1	Minute Time Data - Lubricator #1
%MW12	HOUR_INT_1	Hour Time Data - Lubricator #1

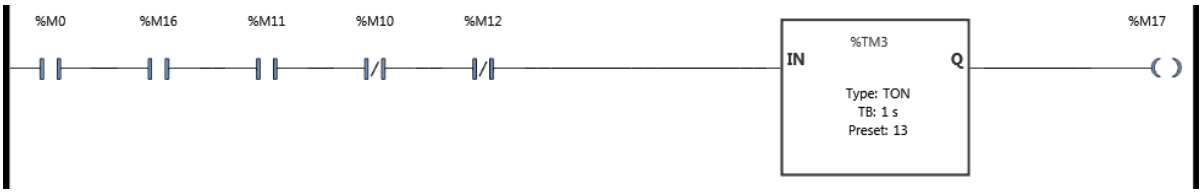
Rung7 - INTERVAL_RUN_TIME



Variablesused:

%M16	INTERVAL_TIME_ON_INT_1	Interval Time Finished Signal - Lubricator #1
%M17	SUPPLY_TIME_ON_INT_1	Supply Time Finished Signal - Lubricator #1
%MW11	MIN_INT_1	Minute Time Data - Lubricator #1
%MW12	HOUR_INT_1	Hour Time Data - Lubricator #1
%MW1011	SET_MIN_INT_1	Set the Minute Time Data - Lubricator #1
%MW1012	SET_HOUR_INT_1	Set the Hour Time Data - Lubricator #1

Rung8 - SUPPLY_RUN_TIME



Variablesused:

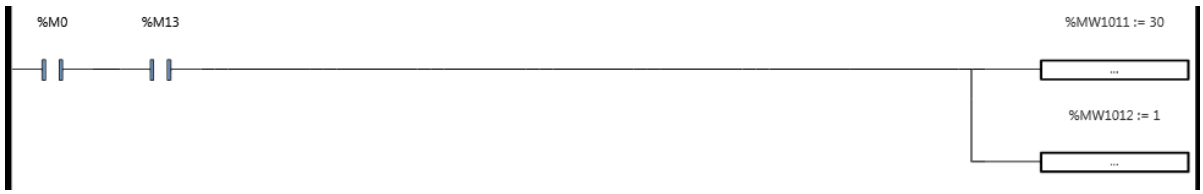
%M0	LUBRICATOR_START_BIT	Auto Start Bit
%M10	OVERLOAD_INT_1	Overload Fault Signal - Lubricator #1
%M11	NO_FAULT_INT_1	No Fault Signal - Lubricator #1
%M12	END_OF_CYCLE_INT_1	End of Cycle Signal - Lubricator #1
%M16	INTERVAL_TIME_ON_INT_1	Interval Time Finished Signal - Lubricator #1
%M17	SUPPLY_TIME_ON_INT_1	Supply Time Finished Signal - Lubricator #1
%TM3	SUPPLY_INT_1	Supply Timer - Lubricator #1

Rung9 - LUBRICATOR_RUN

Variablesused:

%M16	INTERVAL_TIME_ON_INT_1	Interval Time Finished Signal - Lubricator #1
%M17	SUPPLY_TIME_ON_INT_1	Supply Time Finished Signal - Lubricator #1
%MW10	SEC_INT_1	Second Time Data - Lubricator #1
%MW11	MIN_INT_1	Minute Time Data - Lubricator #1
%MW12	HOUR_INT_1	Hour Time Data - Lubricator #1
%Q0.0	INT_OUT_LUB_1	Interval Mode Output Signal - Lubricator #1

Rung10 - INITIAL_VALUE_SET



Variablesused:

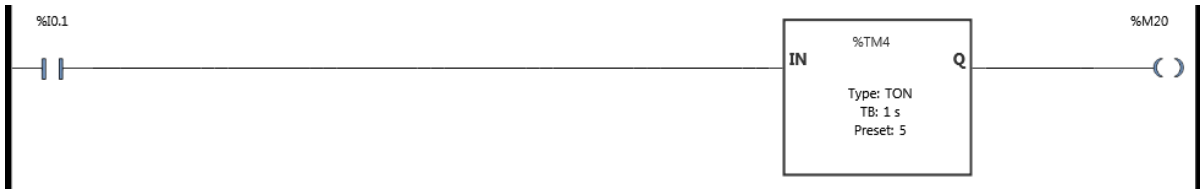
INTERVAL VARIABLE

%M0	LUBRICATOR_START_BIT	Auto Start Bit
%M13	INITIAL_SIGNAL_INT_1	Initial Value Switch (If using the HMI) - Lubricator #1
%MW1011	SET_MIN_INT_1	Set the Minute Time Data - Lubricator #1
%MW1012	SET_HOUR_INT_1	Set the Hour Time Data - Lubricator #1

3-INTERVAL_LUB_2

Master Task

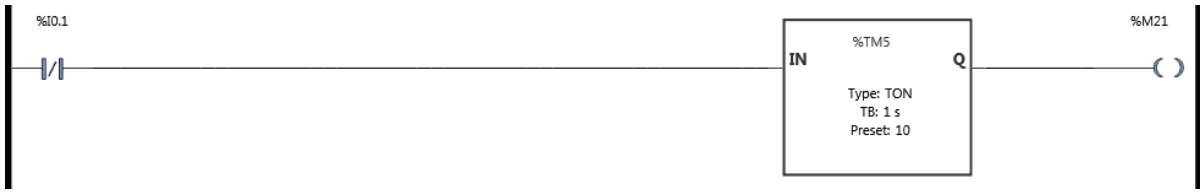
Rung0 - OVERLOAD CHECK



Variablesused:

%I0.1	INT_IN_LUB_2	Interval Mode Input Signal - Lubricator #2
%M20	OVERLOAD_INT_2	Overload Fault Signal - Lubricator #2
%TM4	OVERLOAD_CHECK_INT_2	Overload Check Timer - Lubricator #2

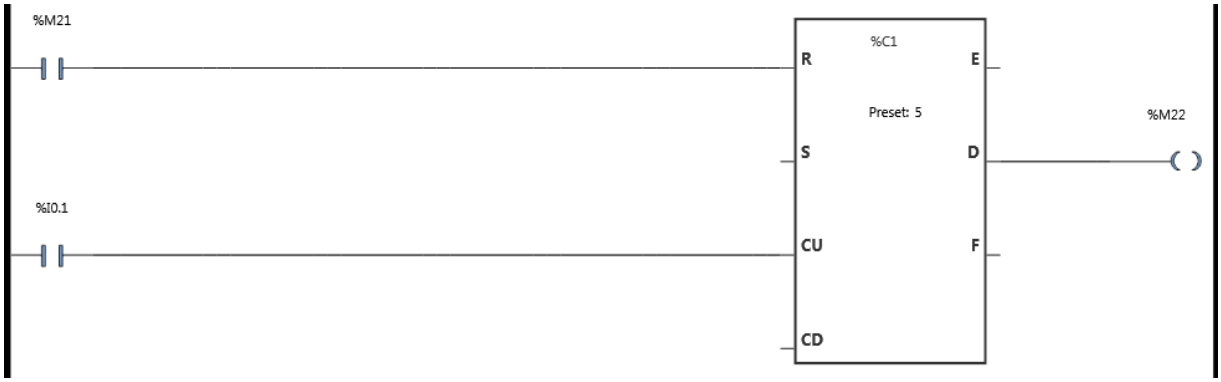
Rung1 - NO ALARM



Variablesused:

%I0.1	INT_IN_LUB_2	Interval Mode Input Signal - Lubricator #2
%M21	NO_FAULT_INT_2	No Fault Signal - Lubricator #2
%TM5	NO_FAULT_CHECK_INT_2	No Fault Check Timer - Lubricator #2

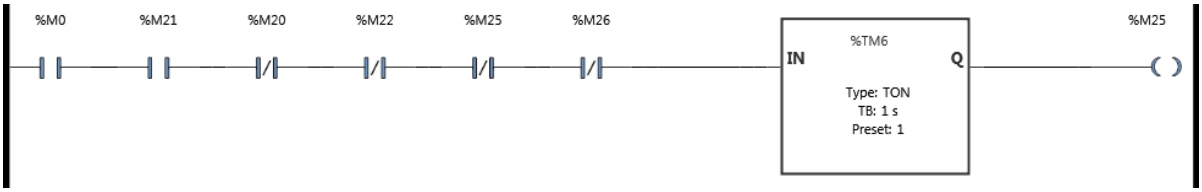
Rung2 - END OF CYCLE



Variablesused:

%C1	END_OF_CYCLE_CHECK_INT_2	End of Cycle Check Counter - Lubricator #2
%I0.1	INT_IN_LUB_2	Interval Mode Input Signal - Lubricator #2
%M21	NO_FAULT_INT_2	No Fault Signal - Lubricator #2
%M22	END_OF_CYCLE_INT_2	End of Cycle Signal - Lubricator #2

Rung3 - COUNTER_START



Variablesused:

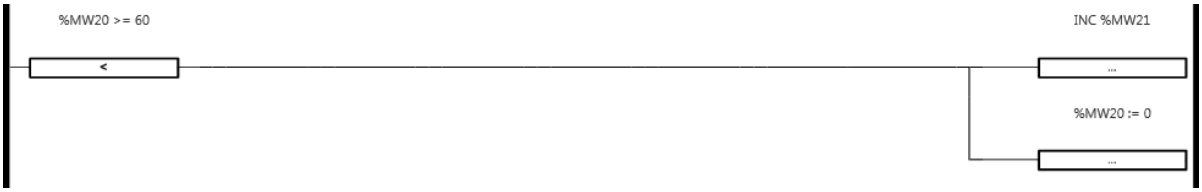
%M0	LUBRICATOR_START_BIT	Auto Start Bit
%M20	OVERLOAD_INT_2	Overload Fault Signal - Lubricator #2
%M21	NO_FAULT_INT_2	No Fault Signal - Lubricator #2
%M22	END_OF_CYCLE_INT_2	End of Cycle Signal - Lubricator #2
%M25	LUBRICATOR_SEC_INT_2	Running Time (Sec) Signal - Lubricator #2
%M26	INTERVAL_TIME_ON_INT_2	Interval Time Finished Signal - Lubricator #2
%TM6	SEC_TIMER_INT_2	Second Time Data Timer - Lubricator #2

Rung4 - COUNTER_SEC

Variablesused:

%M25	LUBRICATOR_SEC_INT_2	Running Time (Sec) Signal - Lubricator #2
%MW20	SEC_INT_2	Second Time Data - Lubricator #2

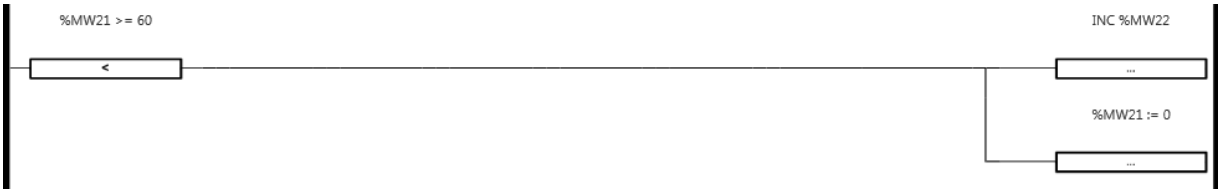
Rung5 - COUNTER_MIN



Variablesused:

%MW20	SEC_INT_2	Second Time Data - Lubricator #2
%MW21	MIN_INT_2	Minute Time Data - Lubricator #2

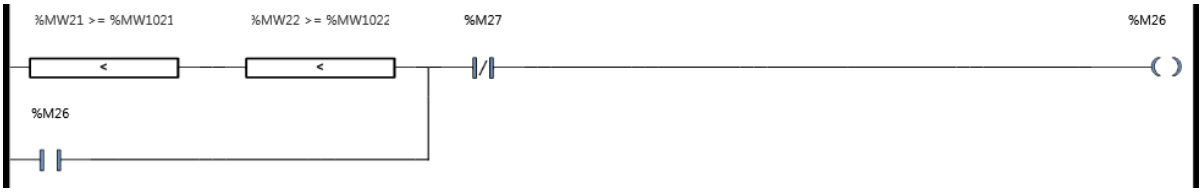
Rung6 - COUNTER_HOUR



Variablesused:

%MW21	MIN_INT_2	Minute Time Data - Lubricator #2
%MW22	HOUR_INT_2	Hour Time Data - Lubricator #2

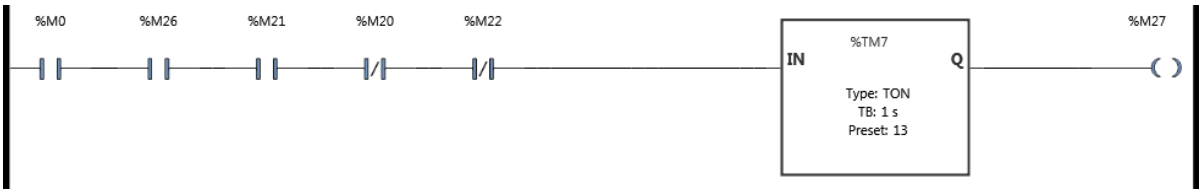
Rung7 - INTERVAL_RUN_TIME



Variablesused:

%M26	INTERVAL_TIME_ON_INT_2	Interval Time Finished Signal - Lubricator #2
%M27	SUPPLY_TIME_ON_INT_2	Supply Time Finished Signal - Lubricator #2
%MW21	MIN_INT_2	Minute Time Data - Lubricator #2
%MW22	HOUR_INT_2	Hour Time Data - Lubricator #2
%MW1021	SET_MIN_INT_2	Set the Minute Time Data - Lubricator #2
%MW1022	SET_HOUR_INT_2	Set the Hour Time Data - Lubricator #2

Rung8 - SUPPLY_RUN_TIME



Variablesused:

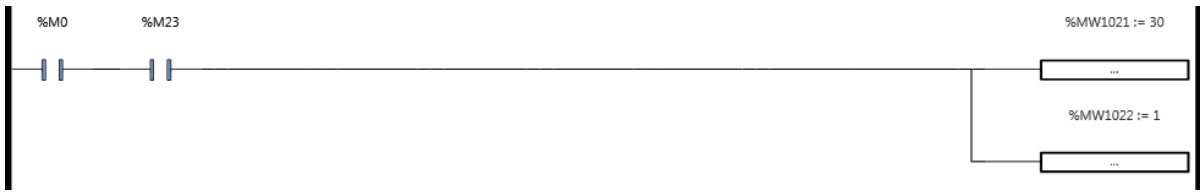
%M0	LUBRICATOR_START_BIT	Auto Start Bit
%M20	OVERLOAD_INT_2	Overload Fault Signal - Lubricator #2
%M21	NO_FAULT_INT_2	No Fault Signal - Lubricator #2
%M22	END_OF_CYCLE_INT_2	End of Cycle Signal - Lubricator #2
%M26	INTERVAL_TIME_ON_INT_2	Interval Time Finished Signal - Lubricator #2
%M27	SUPPLY_TIME_ON_INT_2	Supply Time Finished Signal - Lubricator #2
%TM7	SUPPLY_INT_2	Supply Timer - Lubricator #2

Rung9 - LUBRICATOR_RUN

Variablesused:

%M26	INTERVAL_TIME_ON_INT_2	Interval Time Finished Signal - Lubricator #2
%M27	SUPPLY_TIME_ON_INT_2	Supply Time Finished Signal - Lubricator #2
%MW20	SEC_INT_2	Second Time Data - Lubricator #2
%MW21	MIN_INT_2	Minute Time Data - Lubricator #2
%MW22	HOUR_INT_2	Hour Time Data - Lubricator #2
%Q0.1	INT_OUT_LUB_2	Interval Mode Output Signal - Lubricator #2

Rung10 - INITIAL_VALUE_SET



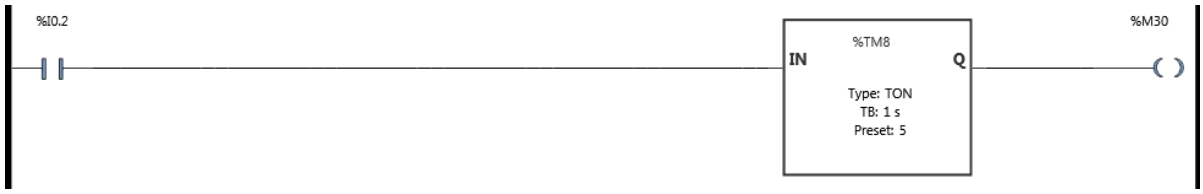
Variablesused:

%M0	LUBRICATOR_START_BIT	Auto Start Bit
%M23	INITIAL_SIGNAL_INT_2	Initial Value Switch (If using the HMI) - Lubricator #2
%MW1021	SET_MIN_INT_2	Set the Minute Time Data - Lubricator #2
%MW1022	SET_HOUR_INT_2	Set the Hour Time Data - Lubricator #2

4-INTERVAL_LUB_3

Master Task

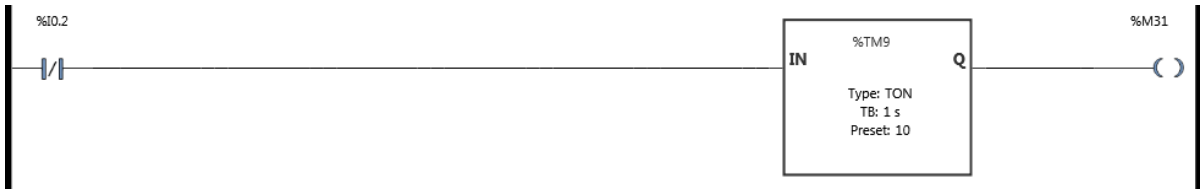
Rung0 - OVERLOAD CHECK



Variablesused:

%I0.2	INT_IN_LUB_3	Interval Mode Input Signal - Lubricator #3
%M30	OVERLOAD_INT_3	Overload Fault Signal - Lubricator #3
%TM8	OVERLOAD_CHECK_INT_3	Overload Check Timer - Lubricator #3

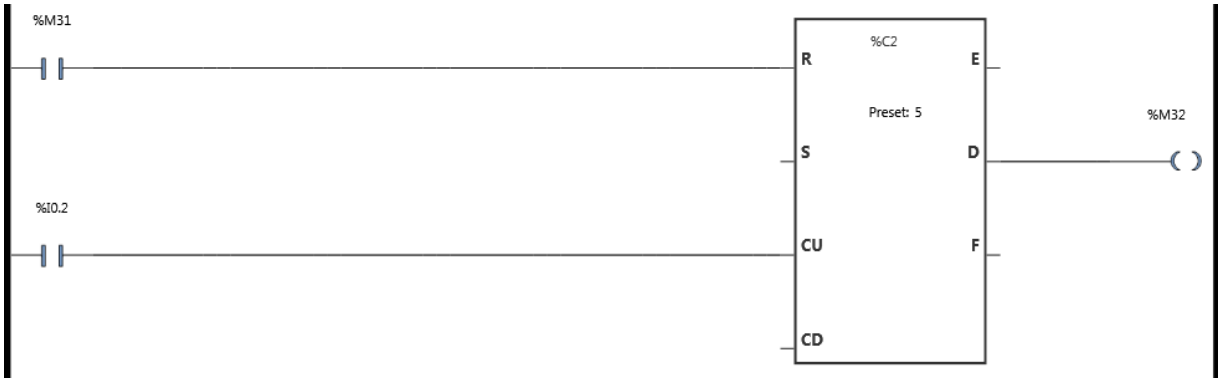
Rung1 - NO ALARM



Variablesused:

%I0.2	INT_IN_LUB_3	Interval Mode Input Signal - Lubricator #3
%M31	NO_FAULT_INT_3	No Fault Signal - Lubricator #3
%TM9	NO_FAULT_CHECK_INT_3	No Fault Check Timer - Lubricator #3

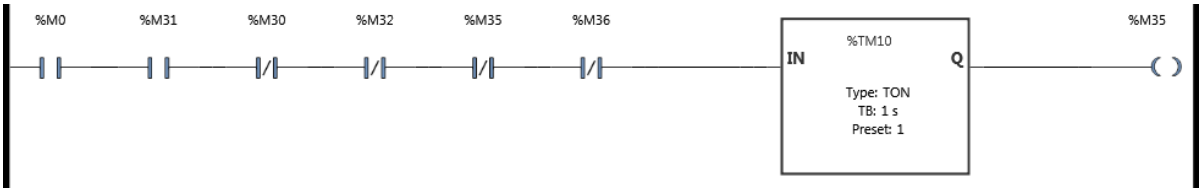
Rung2 - END OF CYCLE



Variablesused:

%C2	END_OF_CYCLE_CHECK_INT_3	End of Cycle Check Counter - Lubricator #3
%I0.2	INT_IN_LUB_3	Interval Mode Input Signal - Lubricator #3
%M31	NO_FAULT_INT_3	No Fault Signal - Lubricator #3
%M32	END_OF_CYCLE_INT_3	End of Cycle Signal - Lubricator #3

Rung3 - COUNTER_START



Variablesused:

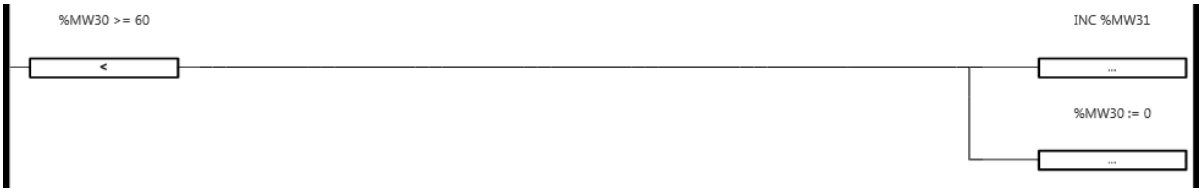
%M0	LUBRICATOR_START_BIT	Auto Start Bit
%M30	OVERLOAD_INT_3	Overload Fault Signal - Lubricator #3
%M31	NO_FAULT_INT_3	No Fault Signal - Lubricator #3
%M32	END_OF_CYCLE_INT_3	End of Cycle Signal - Lubricator #3
%M35	LUBRICATOR_SEC_INT_3	Running Time (Sec) Signal - Lubricator #3
%M36	INTERVAL_TIME_ON_INT_3	Interval Time Finished Signal - Lubricator #3
%TM10	SEC_TIMER_INT_3	Second Time Data Timer - Lubricator #3

Rung4 - COUNTER_SEC

Variablesused:

%M35	LUBRICATOR_SEC_INT_3	Running Time (Sec) Signal - Lubricator #3
%MW30	SEC_INT_3	Second Time Data - Lubricator #3

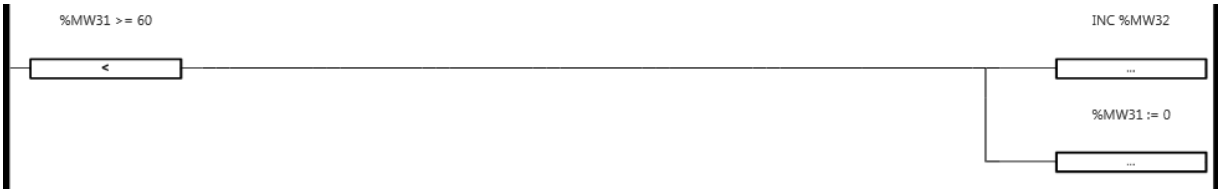
Rung5 - COUNTER_MIN



Variablesused:

%MW30	SEC_INT_3	Second Time Data - Lubricator #3
%MW31	MIN_INT_3	Minute Time Data - Lubricator #3

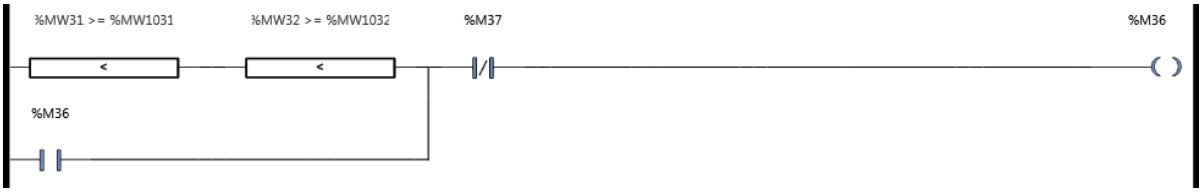
Rung6 - COUNTER_HOUR



Variablesused:

%MW31	MIN_INT_3	Minute Time Data - Lubricator #3
%MW32	HOUR_INT_3	Hour Time Data - Lubricator #3

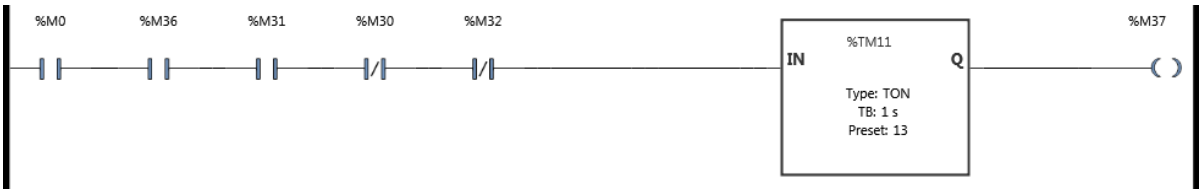
Rung7 - INTERVAL_RUN_TIME



Variablesused:

%M36	INTERVAL_TIME_ON_INT_3	Interval Time Finished Signal - Lubricator #3
%M37	SUPPLY_TIME_ON_INT_3	Supply Time Finished Signal - Lubricator #3
%MW31	MIN_INT_3	Minute Time Data - Lubricator #3
%MW32	HOUR_INT_3	Hour Time Data - Lubricator #3
%MW1031	SET_MIN_INT_3	Set the Minute Time Data - Lubricator #3
%MW1032	SET_HOUR_INT_3	Set the Hour Time Data - Lubricator #3

Rung8 - SUPPLY_RUN_TIME



Variablesused:

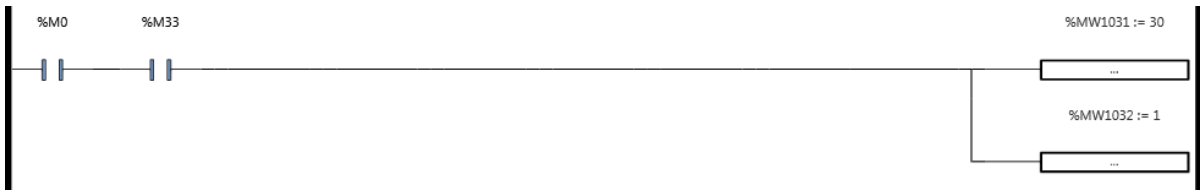
%M0	LUBRICATOR_START_BIT	Auto Start Bit
%M30	OVERLOAD_INT_3	Overload Fault Signal - Lubricator #3
%M31	NO_FAULT_INT_3	No Fault Signal - Lubricator #3
%M32	END_OF_CYCLE_INT_3	End of Cycle Signal - Lubricator #3
%M36	INTERVAL_TIME_ON_INT_3	Interval Time Finished Signal - Lubricator #3
%M37	SUPPLY_TIME_ON_INT_3	Supply Time Finished Signal - Lubricator #3
%TM11	SUPPLY_INT_3	Supply Timer - Lubricator #3

Rung9 - LUBRICATOR_RUN

Variablesused:

%M36	INTERVAL_TIME_ON_INT_3	Interval Time Finished Signal - Lubricator #3
%M37	SUPPLY_TIME_ON_INT_3	Supply Time Finished Signal - Lubricator #3
%MW30	SEC_INT_3	Second Time Data - Lubricator #3
%MW31	MIN_INT_3	Minute Time Data - Lubricator #3
%MW32	HOUR_INT_3	Hour Time Data - Lubricator #3
%Q0.2	INT_OUT_LUB_3	Interval Mode Output Signal - Lubricator #3

Rung10 - INITIAL_VALUE_SET



Variablesused:

%M0	LUBRICATOR_START_BIT	Auto Start Bit
%M33	INITIAL_SIGNAL_INT_3	Initial Value Switch (If using the HMI) - Lubricator #3
%MW1031	SET_MIN_INT_3	Set the Minute Time Data - Lubricator #3
%MW1032	SET_HOUR_INT_3	Set the Hour Time Data - Lubricator #3

SYMBOLS

Used	Address	Symbol	Comment
X	%C0	END_OF_CYCLE_CHECK_INT_1	End of Cycle Check Counter - Lubricator #1
X	%C1	END_OF_CYCLE_CHECK_INT_2	End of Cycle Check Counter - Lubricator #2
X	%C2	END_OF_CYCLE_CHECK_INT_3	End of Cycle Check Counter - Lubricator #3
X	%I0.0	INT_IN_LUB_1	Interval Mode Input Signal - Lubricator #1
X	%I0.1	INT_IN_LUB_2	Interval Mode Input Signal - Lubricator #2
X	%I0.2	INT_IN_LUB_3	Interval Mode Input Signal - Lubricator #3
X	%M0	LUBRICATOR_START_BIT	Auto Start Bit
X	%M1	LUBRICATOR_STOP_BIT	Lubricator Stop Switch - If using the HMI
X	%M10	OVERLOAD_INT_1	Overload Fault Signal - Lubricator #1
X	%M11	NO_FAULT_INT_1	No Fault Signal - Lubricator #1
X	%M12	END_OF_CYCLE_INT_1	End of Cycle Signal - Lubricator #1
X	%M13	INITIAL_SIGNAL_INT_1	Initial Value Switch (If using the HMI) - Lubricator #1
X	%M15	LUBRICATOR_SEC_INT_1	Running Time (Sec) Signal - Lubricator #1
X	%M16	INTERVAL_TIME_ON_INT_1	Interval Time Finished Signal - Lubricator #1
X	%M17	SUPPLY_TIME_ON_INT_1	Supply Time Finished Signal - Lubricator #1
X	%M20	OVERLOAD_INT_2	Overload Fault Signal - Lubricator #2
X	%M21	NO_FAULT_INT_2	No Fault Signal - Lubricator #2
X	%M22	END_OF_CYCLE_INT_2	End of Cycle Signal - Lubricator #2
X	%M23	INITIAL_SIGNAL_INT_2	Initial Value Switch (If using the HMI) - Lubricator #2
X	%M25	LUBRICATOR_SEC_INT_2	Running Time (Sec) Signal - Lubricator #2
X	%M26	INTERVAL_TIME_ON_INT_2	Interval Time Finished Signal - Lubricator #2
X	%M27	SUPPLY_TIME_ON_INT_2	Supply Time Finished Signal - Lubricator #2
X	%M30	OVERLOAD_INT_3	Overload Fault Signal - Lubricator #3
X	%M31	NO_FAULT_INT_3	No Fault Signal - Lubricator #3
X	%M32	END_OF_CYCLE_INT_3	End of Cycle Signal - Lubricator #3
X	%M33	INITIAL_SIGNAL_INT_3	Initial Value Switch (If using the HMI) - Lubricator #3
X	%M35	LUBRICATOR_SEC_INT_3	Running Time (Sec) Signal - Lubricator #3

Used	Address	Symbol	Comment
X	%M36	INTERVAL_TIME_ON_INT_3	Interval Time Finished Signal - Lubricator #3
X	%M37	SUPPLY_TIME_ON_INT_3	Supply Time Finished Signal - Lubricator #3
X	%MW10	SEC_INT_1	Second Time Data - Lubricator #1
X	%MW11	MIN_INT_1	Minute Time Data - Lubricator #1
X	%MW12	HOUR_INT_1	Hour Time Data - Lubricator #1
X	%MW20	SEC_INT_2	Second Time Data - Lubricator #2
X	%MW21	MIN_INT_2	Minute Time Data - Lubricator #2
X	%MW22	HOUR_INT_2	Hour Time Data - Lubricator #2
X	%MW30	SEC_INT_3	Second Time Data - Lubricator #3
X	%MW31	MIN_INT_3	Minute Time Data - Lubricator #3
X	%MW32	HOUR_INT_3	Hour Time Data - Lubricator #3
X	%MW1011	SET_MIN_INT_1	Set the Minute Time Data - Lubricator #1
X	%MW1012	SET_HOUR_INT_1	Set the Hour Time Data - Lubricator #1
X	%MW1021	SET_MIN_INT_2	Set the Minute Time Data - Lubricator #2
X	%MW1022	SET_HOUR_INT_2	Set the Hour Time Data - Lubricator #2
X	%MW1031	SET_MIN_INT_3	Set the Minute Time Data - Lubricator #3
X	%MW1032	SET_HOUR_INT_3	Set the Hour Time Data - Lubricator #3
X	%Q0.0	INT_OUT_LUB_1	Interval Mode Output Signal - Lubricator #1
X	%Q0.1	INT_OUT_LUB_2	Interval Mode Output Signal - Lubricator #2
X	%Q0.2	INT_OUT_LUB_3	Interval Mode Output Signal - Lubricator #3
X	%S12	SB_RUNMODE	The controller is running
X	%TM0	OVERLOAD_CHECK_INT_1	Overload Check Timer - Lubricator #1
X	%TM1	NO_FAULT_CHECK_INT_1	No Fault Check Timer - Lubricator #1
X	%TM2	SEC_TIMER_INT_1	Second Time Data Timer - Lubricator #1
X	%TM3	SUPPLY_INT_1	Supply Timer - Lubricator #1
X	%TM4	OVERLOAD_CHECK_INT_2	Overload Check Timer - Lubricator #2
X	%TM5	NO_FAULT_CHECK_INT_2	No Fault Check Timer - Lubricator #2
X	%TM6	SEC_TIMER_INT_2	Second Time Data Timer - Lubricator #2
X	%TM7	SUPPLY_INT_2	Supply Timer - Lubricator #2
X	%TM8	OVERLOAD_CHECK_INT_3	Overload Check Timer - Lubricator #3
X	%TM9	NO_FAULT_CHECK_INT_3	No Fault Check Timer - Lubricator #3

Used	Address	Symbol	Comment
X	%TM10	SEC_TIMER_INT_3	Second Time Data Timer - Lubricator #3
X	%TM11	SUPPLY_INT_3	Supply Timer - Lubricator #3

CROSS-REFERENCE TABLE

Address	Object	Rung	Code
%C0.....	2 - INTERVAL_LUB_1	Rung2 - END OF CYCLE	%C0
%C1.....	3 - INTERVAL_LUB_2	Rung2 - END OF CYCLE	%C1
%C2.....	4 - INTERVAL_LUB_3	Rung2 - END OF CYCLE	%C2
%I0.0.....	2 - INTERVAL_LUB_1	Rung0 - OVERLOAD CHECK	--| |--
		Rung1 - NO ALARM	--|/|--
		Rung2 - END OF CYCLE	--| |--
%I0.1.....	3 - INTERVAL_LUB_2	Rung0 - OVERLOAD CHECK	--| |--
		Rung1 - NO ALARM	--|/|--
		Rung2 - END OF CYCLE	--| |--
%I0.2.....	4 - INTERVAL_LUB_3	Rung0 - OVERLOAD CHECK	--| |--
		Rung1 - NO ALARM	--|/|--
		Rung2 - END OF CYCLE	--| |--
%M0.....	1 - COMMON	Rung0 - LUBRICATOR START	--( )--
	2 - INTERVAL_LUB_1	Rung3 - COUNTER_START	--| |--
		Rung8 - SUPPLY_RUN_TIME	--| |--
		Rung10 - INITIAL_VALUE_SET	--| |--
	3 - INTERVAL_LUB_2	Rung3 - COUNTER_START	--| |--
		Rung8 - SUPPLY_RUN_TIME	--| |--
		Rung10 - INITIAL_VALUE_SET	--| |--
	4 - INTERVAL_LUB_3	Rung3 - COUNTER_START	--| |--
		Rung8 - SUPPLY_RUN_TIME	--| |--
		Rung10 - INITIAL_VALUE_SET	--| |--
%M1.....	1 - COMMON	Rung0 - LUBRICATOR START	--|/|--
%M10.....	2 - INTERVAL_LUB_1	Rung0 - OVERLOAD CHECK	--( )--
		Rung3 - COUNTER_START	--|/|--
		Rung8 - SUPPLY_RUN_TIME	--|/|--
%M11.....	2 - INTERVAL_LUB_1	Rung1 - NO ALARM	--( )--
		Rung2 - END OF CYCLE	--| |--
		Rung3 - COUNTER_START	--| |--
		Rung8 - SUPPLY_RUN_TIME	--| |--

Address	Object	Rung	Code
%M12.....	2 - INTERVAL_LUB_1	Rung2 - END OF CYCLE	--( )--
		Rung3 - COUNTER_START	--|/|--
		Rung8 - SUPPLY_RUN_TIME	--|/|--
%M13.....	2 - INTERVAL_LUB_1	Rung10 - INITIAL_VALUE_SET	--| |--
%M15.....	2 - INTERVAL_LUB_1	Rung3 - COUNTER_START	--( )--
			--|/|--
		Rung4 - COUNTER_SEC	--|P|--
%M16.....	2 - INTERVAL_LUB_1	Rung3 - COUNTER_START	--|/|--
		Rung7 - INTERVAL_RUN_TIME	--( )--
			--| |--
		Rung8 - SUPPLY_RUN_TIME	--| |--
		Rung9 - LUBRICATOR_RUN	--| |--
%M17.....	2 - INTERVAL_LUB_1	Rung7 - INTERVAL_RUN_TIME	--|/|--
		Rung8 - SUPPLY_RUN_TIME	--( )--
		Rung9 - LUBRICATOR_RUN	--|/|--
%M20.....	3 - INTERVAL_LUB_2	Rung0 - OVERLOAD CHECK	--( )--
		Rung3 - COUNTER_START	--|/|--
		Rung8 - SUPPLY_RUN_TIME	--|/|--
%M21.....	3 - INTERVAL_LUB_2	Rung1 - NO ALARM	--( )--
		Rung2 - END OF CYCLE	--| |--
		Rung3 - COUNTER_START	--| |--
		Rung8 - SUPPLY_RUN_TIME	--| |--
%M22.....	3 - INTERVAL_LUB_2	Rung2 - END OF CYCLE	--( )--
		Rung3 - COUNTER_START	--|/|--
		Rung8 - SUPPLY_RUN_TIME	--|/|--
%M23.....	3 - INTERVAL_LUB_2	Rung10 - INITIAL_VALUE_SET	--| |--
%M25.....	3 - INTERVAL_LUB_2	Rung3 - COUNTER_START	--( )--
			--|/|--
		Rung4 - COUNTER_SEC	--|P|--
%M26.....	3 - INTERVAL_LUB_2	Rung3 - COUNTER_START	--|/|--
		Rung7 - INTERVAL_RUN_TIME	--( )--
			--| |--
		Rung8 - SUPPLY_RUN_TIME	--| |--

Address	Object	Rung	Code
		Rung9 - LUBRICATOR_RUN	--| |--
%M27.....	3 - INTERVAL_LUB_2	Rung7 - INTERVAL_RUN_TIME	--|/|--
		Rung8 - SUPPLY_RUN_TIME	--( )--
		Rung9 - LUBRICATOR_RUN	--|/|--
%M30.....	4 - INTERVAL_LUB_3	Rung0 - OVERLOAD CHECK	--( )--
		Rung3 - COUNTER_START	--|/|--
		Rung8 - SUPPLY_RUN_TIME	--|/|--
%M31.....	4 - INTERVAL_LUB_3	Rung1 - NO ALARM	--( )--
		Rung2 - END OF CYCLE	--| |--
		Rung3 - COUNTER_START	--| |--
		Rung8 - SUPPLY_RUN_TIME	--| |--
%M32.....	4 - INTERVAL_LUB_3	Rung2 - END OF CYCLE	--( )--
		Rung3 - COUNTER_START	--|/|--
		Rung8 - SUPPLY_RUN_TIME	--|/|--
%M33.....	4 - INTERVAL_LUB_3	Rung10 - INITIAL_VALUE_SET	--| |--
%M35.....	4 - INTERVAL_LUB_3	Rung3 - COUNTER_START	--( )--
			--|/|--
		Rung4 - COUNTER_SEC	--|P|--
%M36.....	4 - INTERVAL_LUB_3	Rung3 - COUNTER_START	--|/|--
		Rung7 - INTERVAL_RUN_TIME	--( )--
			--| |--
		Rung8 - SUPPLY_RUN_TIME	--| |--
		Rung9 - LUBRICATOR_RUN	--| |--
%M37.....	4 - INTERVAL_LUB_3	Rung7 - INTERVAL_RUN_TIME	--|/|--
		Rung8 - SUPPLY_RUN_TIME	--( )--
		Rung9 - LUBRICATOR_RUN	--|/|--
%MW10.....	2 - INTERVAL_LUB_1	Rung4 - COUNTER_SEC	--[...]-- INC %MW10
		Rung5 - COUNTER_MIN	--[<]-- %MW10 >= 60
			--[...]-- %MW10 := 0
		Rung9 - LUBRICATOR_RUN	--[...]-- %MW10 := 0
%MW11.....	2 - INTERVAL_LUB_1	Rung5 - COUNTER_MIN	--[...]-- INC %MW11
		Rung6 - COUNTER_HOUR	--[<]-- %MW11 >= 60
			--[...]-- %MW11 := 0

Address	Object	Rung	Code
		Rung7 - INTERVAL_RUN_TIME	--[<]-- %MW11 >= %MW1011
		Rung9 - LUBRICATOR_RUN	--[...]-- %MW11 := 0
%MW12.....	2 - INTERVAL_LUB_1	Rung6 - COUNTER_HOUR	--[...]-- INC %MW12
		Rung7 - INTERVAL_RUN_TIME	--[<]-- %MW12 >= %MW1012
		Rung9 - LUBRICATOR_RUN	--[...]-- %MW12 := 0
%MW20.....	3 - INTERVAL_LUB_2	Rung4 - COUNTER_SEC	--[...]-- INC %MW20
		Rung5 - COUNTER_MIN	--[<]-- %MW20 >= 60
			--[...]-- %MW20 := 0
		Rung9 - LUBRICATOR_RUN	--[...]-- %MW20 := 0
%MW21.....	3 - INTERVAL_LUB_2	Rung5 - COUNTER_MIN	--[...]-- INC %MW21
		Rung6 - COUNTER_HOUR	--[<]-- %MW21 >= 60
			--[...]-- %MW21 := 0
		Rung7 - INTERVAL_RUN_TIME	--[<]-- %MW21 >= %MW1021
		Rung9 - LUBRICATOR_RUN	--[...]-- %MW21 := 0
%MW22.....	3 - INTERVAL_LUB_2	Rung6 - COUNTER_HOUR	--[...]-- INC %MW22
		Rung7 - INTERVAL_RUN_TIME	--[<]-- %MW22 >= %MW1022
		Rung9 - LUBRICATOR_RUN	--[...]-- %MW22 := 0
%MW30.....	4 - INTERVAL_LUB_3	Rung4 - COUNTER_SEC	--[...]-- INC %MW30
		Rung5 - COUNTER_MIN	--[<]-- %MW30 >= 60
			--[...]-- %MW30 := 0
		Rung9 - LUBRICATOR_RUN	--[...]-- %MW30 := 0
%MW31.....	4 - INTERVAL_LUB_3	Rung5 - COUNTER_MIN	--[...]-- INC %MW31
		Rung6 - COUNTER_HOUR	--[<]-- %MW31 >= 60
			--[...]-- %MW31 := 0
		Rung7 - INTERVAL_RUN_TIME	--[<]-- %MW31 >= %MW1031
		Rung9 - LUBRICATOR_RUN	--[...]-- %MW31 := 0
%MW32.....	4 - INTERVAL_LUB_3	Rung6 - COUNTER_HOUR	--[...]-- INC %MW32
		Rung7 - INTERVAL_RUN_TIME	--[<]-- %MW32 >= %MW1032
		Rung9 - LUBRICATOR_RUN	--[...]-- %MW32 := 0
%MW1011....	2 - INTERVAL_LUB_1	Rung7 - INTERVAL_RUN_TIME	--[<]-- %MW11 >= %MW1011
		Rung10 - INITIAL_VALUE_SET	--[...]-- %MW1011 := 30
%MW1012....	2 - INTERVAL_LUB_1	Rung7 - INTERVAL_RUN_TIME	--[<]-- %MW12 >= %MW1012

Address	Object	Rung	Code
		Rung10 - INITIAL_VALUE_SET	--[...]-- %MW1012 := 1
%MW1021....	3 - INTERVAL_LUB_2	Rung7 - INTERVAL_RUN_TIME	--[<]-- %MW21 >= %MW1021
		Rung10 - INITIAL_VALUE_SET	--[...]-- %MW1021 := 30
%MW1022....	3 - INTERVAL_LUB_2	Rung7 - INTERVAL_RUN_TIME	--[<]-- %MW22 >= %MW1022
		Rung10 - INITIAL_VALUE_SET	--[...]-- %MW1022 := 1
%MW1031....	4 - INTERVAL_LUB_3	Rung7 - INTERVAL_RUN_TIME	--[<]-- %MW31 >= %MW1031
		Rung10 - INITIAL_VALUE_SET	--[...]-- %MW1031 := 30
%MW1032....	4 - INTERVAL_LUB_3	Rung7 - INTERVAL_RUN_TIME	--[<]-- %MW32 >= %MW1032
		Rung10 - INITIAL_VALUE_SET	--[...]-- %MW1032 := 1
%Q0.0.....	2 - INTERVAL_LUB_1	Rung9 - LUBRICATOR_RUN	--( )--
%Q0.1.....	3 - INTERVAL_LUB_2	Rung9 - LUBRICATOR_RUN	--( )--
%Q0.2.....	4 - INTERVAL_LUB_3	Rung9 - LUBRICATOR_RUN	--( )--
%S12.....	1 - COMMON	Rung0 - LUBRICATOR START	--| |--
%TM0.....	2 - INTERVAL_LUB_1	Rung0 - OVERLOAD CHECK	%TM0
%TM1.....	2 - INTERVAL_LUB_1	Rung1 - NO ALARM	%TM1
%TM2.....	2 - INTERVAL_LUB_1	Rung3 - COUNTER_START	%TM2
%TM3.....	2 - INTERVAL_LUB_1	Rung8 - SUPPLY_RUN_TIME	%TM3
%TM4.....	3 - INTERVAL_LUB_2	Rung0 - OVERLOAD CHECK	%TM4
%TM5.....	3 - INTERVAL_LUB_2	Rung1 - NO ALARM	%TM5
%TM6.....	3 - INTERVAL_LUB_2	Rung3 - COUNTER_START	%TM6
%TM7.....	3 - INTERVAL_LUB_2	Rung8 - SUPPLY_RUN_TIME	%TM7
%TM8.....	4 - INTERVAL_LUB_3	Rung0 - OVERLOAD CHECK	%TM8
%TM9.....	4 - INTERVAL_LUB_3	Rung1 - NO ALARM	%TM9
%TM10.....	4 - INTERVAL_LUB_3	Rung3 - COUNTER_START	%TM10
%TM11.....	4 - INTERVAL_LUB_3	Rung8 - SUPPLY_RUN_TIME	%TM11

ANIMATION TABLE

Animation table_0

Used	Address	Symbol	Comment
X	%M1	LUBRICATOR_STOP_BIT	Lubricator Stop Switch - If using the HMI
X	%MW10	SEC_INT_1	Second Time Data - Lubricator #1
X	%MW11	MIN_INT_1	Minute Time Data - Lubricator #1
X	%MW12	HOUR_INT_1	Hour Time Data - Lubricator #1
X	%MW1011	SET_MIN_INT_1	Set the Minute Time Data - Lubricator #1
X	%MW1012	SET_HOUR_INT_1	Set the Hour Time Data - Lubricator #1
X	%M13	INITIAL_SIGNAL_INT_1	Initial Value Switch (If using the HMI) - Lubricator #1