



- NOTES:
1. SYSTEM DESIGNED PER ASME B31.3
DESIGN PRESSURE: 100 PSIG
DESIGN TEMPERATURE: 700°F
 2. THIS CONNECTION SHOULD BE MADE BELOW THE UNDERSIDE OF THE EXPANSION TANK.
 3. LINES TO EXPANSION TANK MUST SLOPE UPWARD TOWARD TANK.
 4. VENTS TO BE LOCATED AT HIGH POINTS IN SYSTEM.
 5. DRAIN TO BE LOCATED AT LOW POINTS IN SYSTEM.
 6. SLOPE LINE DOWN TO DRAIN TANK.
 7. EXPANSION LINE CONNECTION TO PRIMARY RETURN PIPING TO BE WITHIN APPROPRIATE PROXIMITY TO SUCTION SIDE OF PUMPS IN ORDER TO MEET NPSH REQUIREMENTS DESPITE LINE LOSS.
 8. THERMAL FLUID SAMPLE COOLER NOT SHOWN FOR CLARITY.
 9. NOT ALL REDUCERS OR REDUCING TEE'S ARE NECESSARILY SHOWN ON P & ID DRAWING. PIPING DRAWINGS SHOULD BE USED AS A REFERENCE.
 10. FLANGE CONNECTION FOR INSERTION OF BLIND FLANGE IS INSTALLED HIGH ENOUGH (RIGHT BELOW BRANCHING) TO AVOID DRAINING OF THE SYSTEM WHEN REMOVED AFTER HYDROTESTING WITH OIL.
 11. INSULATE ALL PIPE LINES EXCEPT HEAT-UP, EXPANSION, OVER FLOW LINES, DRAINS, AND VENTS.
 12. EXPANSION TANK AND DRAIN TANK NOT TO BE INSULATED.
 13. ALL GASKETS AND SEALS SHALL BE COMPATIBLE WITH THE HEAT TRANSFER MEDIA AND SUITABLE FOR THE TEMPERATURE AND PRESSURE EXPOSED.
 14. DRAIN TANK VENT MUST BE ROUTED TO OUTSIDE.
 15. DRAIN TANK BY OTHERS.
 16. CLOSED CELL INSULATION TO BE USED 5'-0" FROM EVERY FLANGED CONNECTION.
 17. EXPANSION TANK SHOULD OPERATE WITH NITROGEN PRESSURE

PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS
DRAWING IS THE SOLE PROPERTY OF
JAYRO DIESEL, INC. ANY REPRODUCTION
IN PART OR AS A WHOLE
WITHOUT THE WRITTEN PERMISSION OF
JAYRO DIESEL, INC. IS PROHIBITED.

REV	DATE	MODIFIED BY	MODIFICATION	DRAWN	CHECKED	ENG APPR.	MFG APPR.	QA	TITLE:
15	10-28-2018	LL	ADD TT-20061, LS-20062	RAHUL	RAHUL				HOT OIL PUMP SYSTEM
14	7-11-2018	LL	1" VALVE ON N2 LINE						
13	4-24-2017	UVR	THERMAL DRAIN TANK REV						
12	08-19-2016	TV	THERMAL FLUID TANK ISOLATION VALVES						
11	06-22-2016	TV	UPDATED AS PER REMARK						
6	07-03-2015	JD	UPDATED AS PER REMARK						
REVISION		MODIFICATION		DRAWN		CHECKED		ENG APPR.	

SIZE	DWG. NO.	REV
A2	2000-1-001	15
SHEET 1 OF 1		