

**Bill of Materials**

<b>Bill of Materials</b>		<b>BOM</b>
<b>Name:</b>	<b>11643 Husky 1150HP 355L</b>	<b>Rev. # 4</b>
<b>Location:</b>	<b>Dry Island 13-30-034-22-W4M (DR2)</b>	<b>GM</b>
<b>Tag #</b>	<b>Item Description</b>	
AE-156	Net Safety Millennium Series Low Power Gas Detector Model#: MLP-LP-AR-SC1100-SEP c/w: P/N: SC1100 catalytic bead, test gas applicator, universal sensor housing, calibration cup c/w: LED display, 4-20mA signal, 3 configurable relays (low, high, fault), CSA approved Class I, Div 1, Groups B,C & D, 10.5-30 VDC power supply required Application: Gas Detection	Rev. # 0
AE-157	Net Safety UV Flame Detector Model # UVS-A Detector Model # JB4-UV-T ASSY Junction Box c/w 4-20 mA signal, mounting swivel, LED indication, 120 degree horizontal and vertical field of view, CSA approved Class 1, Div. I, Gr. B, C & D, 10.5-32 VDC power supply required, operating temp. -40 to 85° C Application: Fire Detection	Rev. # 0
AE-325	Caterpillar Oxygen Sensor Application: AFR Control System Exhaust Oxygen Sensor <b>Note: integral to Cat AFR Controller - supplied with Engine - see 325</b>	Rev. # 0
FE-162	McCrometer Wafer Style V-Cone Model: VH04A1SN3 4" wafer style end connections, 316SS Beta 0.65, Accuracy 2-3% (standard), Instrument Connections 1/4" FNPT	Rev. # 1
FG-211	ALCO Sight Flow Glass 2 pc Model ALCO-SG-1004 1/2" c/w 1 pc cross, 1/2", 3000#, NPT, SA-105N Process Fluid: Compressor Lube Oil/Natural Gas Application: Secondary Oil Return	Rev. # 0
FI-357	Roots Flow Meter Model 15C175 c/w 2" NPT connections MAWP: 175 psi <b>Note: Output in m3.</b>	Rev. # 0
FO-206	Frick Compressor Oil Flow Orifice <b>Note: supplied with Compressor</b>	Rev. # 0
FO-223	Minimum Flow Orifice Plate 1/8" opening, 304 SS, to fit 3/4"-300# flanged connection No handle, no stamp required Process Fluid: Compressor Lube Oil	Rev. # 0
FO-228	Minimum Flow Orifice Plate 1/8" opening, 304 SS, to fit 3/4"-300# flange, 2 5/8" OD, c/w 1/8" bore. No handle, no stamp required Process Fluid: Compressor Lube Oil	Rev. # 0
G-311	Woodward Governor Actuator Model # 3161 pneumatic pneumatic input 3 to 15 psi pressure to close Process Fluid: Instrument Air Application: Engine Governor <b>Note: supplied with Engine</b>	Rev. # 0
LC-130	Murphy Level Controller Model L-1200-N-DVO for dump valve operation c/w buoyglass displacer, 2" NPT process connection, 1/8" NPT inlet connection, 1/4" NPT outlet connection Process Fluid: Water/Natural Gas Condensate <b>Note: level cage supplied by TPS</b>	Rev. # 0

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LC-138	Norriseal Pneumatic Level Controller Series # 1001A Model # 1001A-2SM-60-SLDF-AH c/w 2" NPT connections, left hand mounting, Snap/Direct acting with 1¼" diam. x 16" long aluminum vertical displacer and 16" displacer arm, yellow spring, 1½ foot vertical chain extension Dump span: 5.0" to 16" for S.G.= 0.85, Max. process temperature, 400° F Process Fluid: Water/Condensate/Natural Gas Application: Blowcase Level Controller <b>Note: TPS to fabricate flanged/NPT tee connection for vessel</b>	Rev. # 0
LG-106	Reflex Level Gauge Make: Penberthy Glass Model # 2RL5 Gauge Valve Model # 330J (1 pair) Description: 17¼" visible length reflex glass, ¾" NPT process connection, ½" NPT gauge connection Rated 1750 psig at 300° F Process Fluid: Water/Natural Gas Condensate Application: Suction Filter Sight Glass	Rev. # 0
LG-139	Reflex Level Gauge Make: Penberthy Glass Model # 2RL5 Gauge Valve Model # 330J (1 pair) Description: 17¼" visible length reflex glass, ¾" NPT process connection, ½" NPT gauge connection Rated 1750 psig at 300° F Process Fluid: Water/Condensate/Natural Gas Application: Blowcase Level Gauge	Rev. # 0
LG-219	Reflex Level Gauge Make: Penberthy Glass Model # 2RL5 Gauge Valve Model # 330J (1 pair) Description: 17¼" visible length reflex glass, ¾" NPT process connection, ½" NPT gauge connection Rated 1750 psig at 300° F Process Fluid: Water/Natural Gas Condensate Application: Oil Separator Sight Glass	Rev. # 0
LG-313	Tubular Level Gauge Glass Model # N7A Gauge Glass 5/8" OD red line glass by 18" OAL Gauge Valve ½" (1 pair), steel material, ½" NPT process connection Process Fluid: Engine Oil Application: Engine Oil Tank Sight Glass	Rev. # 0
LG-314	Tubular Level Gauge Glass Model # N7A Gauge Glass 5/8" OD red line glass by 18" OAL Gauge Valve ½" (1 pair), steel material, ½" NPT process connection Process Fluid: Engine Oil Application: Engine Oil Tank Sight Glass	Rev. # 0
LG-316	Tubular Level Gauge Glass Model # N7A Gauge Glass 5/8" OD red line glass by 18" OAL Gauge Valve ½" (1 pair), steel material, ½" NPT process connection Process Fluid: 50/50 Glycol Application: TAW Surge Tank Level Glass	Rev. # 0

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LG-317	Tubular Level Gauge Glass Model # N7A Gauge Glass 5/8" OD red line glass by 18" OAL Gauge Valve 1/2" (1 pair), steel material, 1/2" NPT process connection Process Fluid: 50/50 Glycol Application: EJW Surge Tank Level Glass	Rev. # 0
LG-355	Reflex Level Gauge Make: Penberthy Glass Model # 2RL4 Gauge Valve Model # 330J (1 pair) Description: 15" visible length reflex glass, 3/4" NPT process connection, 1/2" NPT gauge connection Rated 1750 psig at 300° F Process Fluid: Water/Condensate/Natural Gas Application: Fuel Gas Filter Sight Glass	Rev. # 0
LIC-314	Kenco Level Controller Model LCE9 c/w 1/2" NPT inlet, 1/2" NPT process connection Fluid: Engine Lube Oil Application: Engine Oil Level Controller	Rev. # 0 Process
LSHH-102	Murphy Level Control Switch Model L1100, Electric Level Switch c/w 1/2" MNPT process connection, SPDT snap switch Explosion Proof Class 1, Div. 1, Group D, CSA approved Process Fluid: Water/Natural Gas Condensate Application: Suction Filter Primary LSHH	Rev. # 0
LSHH-140	Murphy Level Control Switch Model L1100, Electric Level Switch c/w 1/2" MNPT process connection, SPDT snap switch Explosion Proof Class 1, Div. 1, Group D, CSA approved Process Fluid: Water/Natural Gas Condensate Application: Suction Filter Secondary LSHH	Rev. # 0
LSHH-250	Murphy Level Control Switch Model L1100, Electric Level Switch c/w 1/2" MNPT Process Connection, SPDT snap switch, Explosion Proof Class 1, Div. 1, Group D, CSA approved Process Fluid: Compressor Oil / Natural Gas Application: Oil Separator High Level Shutdown.	Rev. # 0
LSHH-353	Murphy Level Control Switch Model L1100, Electric Level Switch c/w 1/2" MNPT process connection, SPDT snap switch Explosion Proof Class 1, Div. 1, Group D, CSA approved Process Fluid: Water/Natural Gas Condensate Application: Fuel Gas Separator LSHH	Rev. # 0
LSSL-218	Murphy Level Control Switch Model L1100, Electric Level Switch c/w 1/2" MNPT process connection, SPDT snap switch Explosion Proof Class 1, Div. 1, Group D, CSA approved Process Fluid: Natural Gas/Compressor Lube Oil Application: Oil Separator LSSL	Rev. # 0
LSSL-314	Kenco Level Switch c/w SPDT switch, Cl. 1, Div. I, Gr. D CSA approved <b>Note: switch is an integral part of LIC-314</b> Process Fluid: Engine Lube Oil Application: Engine Oil LSSL	Rev. # 0

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LSLL-315	Murphy Level Control Switch Model L1100, Electric Level Switch c/w 1½" MNPT process connection, SPDT snap switch Explosion Proof Class 1, Div. 1, Group D, CSA approved Process Fluid: Turbo 50/50 Glycol Application: TAW LSLL	Rev. # 0
LSLL-318	Murphy Level Control Switch Model L1100, Electric Level Switch c/w 1½" MNPT process connection, SPDT snap switch Explosion Proof Class 1, Div. 1, Group D, CSA approved Process Fluid: Jacket Water 50/50 Glycol Application: EJW LSLL	Rev. # 0
LV-136	Fisher Flow Control Valve Model: D4 c/w 2" NPT connections, 1¼" S41600 stainless steel valve plug, S17400 stainless steel seat ring, 6-30 psi input signal, <b>size 40 Fail Closed</b> actuator, LCC stress relieved steel body and bonnet, 3600 psi rating, live loaded packing Process Fluid: Water/Natural Gas Condensate Application: Suction Filter Drain	Rev. # 0
LV-141	Fisher Flow Control Valve Model: D4 c/w: 2" NPT connections, 1¼" S41600 stainless steel valve plug, S17400 stainless steel seat ring, 6-30 psi input signal, <b>size 40 Fail Open</b> actuator, LCC stress relieved steel body and bonnet, 3600 psi rating, live loaded packing Process Fluid: Water/Natural Gas Condensate Application: Blowcase Equalizing/Filter Drain Line	Rev. # 0
LV-145	Fisher Flow Control Valve Model: D4 c/w: 2" NPT connections, 1¼" S41600 stainless steel valve plug, S17400 stainless steel seat ring, 6-30 psi input signal, <b>size 40 Fail Closed</b> actuator, LCC stress relieved steel body and bonnet, 3600 psi rating, live loaded packing Process Fluid: Water/Natural Gas Condensate Application: Blowcase Discharge Isolation	Rev. # 0
PCV-130	Fisher Outlet Pressure Regulator Model 67CFR/SPEC Set at 35 psi c/w ¼" NPT connections, 0-60 psi spring range, vented bonnet, Wika pressure indicator Process Gas: Instrument Gas Application: Suction Filter Level Controller	Rev. # 0
PCV-150	Fisher Outlet Pressure Regulator Model 67CFR/SPEC Set at 35 psi c/w ¼" NPT connections, 0-60 psi spring range, vented bonnet, Wika pressure indicator Process Gas: Instrument Gas Application: Bypass Valve <b>Note: supplied with PV-150</b>	Rev. # 0
PCV-159	Fisher Outlet Pressure Regulator Model 67CFR/SPEC Set at 35 psi c/w ¼" NPT connections, 0-60 psi spring range, vented bonnet, Wika pressure indicator Process Gas: Instrument Gas Application: Bypass Valve <b>Note: supplied with PV-159</b>	Rev. # 0

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PCV-160	Fisher Outlet Pressure Regulator Model 67CFR/SPEC Set at 35 psi c/w 1/4" NPT connections, 0-60 psi spring range, vented bonnet, Wika pressure indicator Process Gas: Instrument Gas Application: Discharge Valve <b>Note: supplied with PV-160</b>	Rev. # 0
PCV-161	Fisher Outlet Pressure Regulator Model 67CFR/SPEC Set at 35 psi c/w 1/4" NPT connections, 0-60 psi spring range, vented bonnet, Wika pressure indicator Process Gas: Instrument Gas Application: Auto Blowdown Valve	Rev. # 0
PCV-213A	Fisher Outlet Pressure Regulator Model 627 Set at 100 psig c/w 1" NPT connections, 70-150 psig spring range, 1/2" orifice, ductile iron material of construction Process Gas: Fuel/Start Gas	Rev. # 0
PCV-213B	Refrigerating Specialities Outlet Pressure Regulator Model # 2" A4AO Set at 65 psig c/w 1-5/8" port, 2" SW connections, "V" spring range (20" W.C. to 120 psig), factory certified to 400 psig max. body pressure, approx. 5250 SCFM flow @ 115 psig inlet pressure Process Fluid: Natural Gas Application: Start Gas Pressure Regulator	Rev. # 0
PCV-301	Fisher Outlet Pressure Regulator Model 627 Set at 35 psig c/w 2" NPT connections, 15-40 psi spring range, 1/2" orifice, ductile iron material of construction Process Gas: Fuel Gas Application: Fuel Gas Supply	Rev. # 0
PCV-303	Fisher Outlet Pressure Regulator Model L34CSE-40, Cat # 7E3407, set at 5 1/2" WC c/w 2" NPT connections <b>Note: supplied with Engine</b> Process Gas: Fuel Gas Application: Engine Fuel Gas Regulator	Rev. # 0
PCV-321	Fisher Outlet Pressure Regulator Model 67CFR/SPEC Set at 35 psi c/w 1/4" NPT connections, 0-60 psi spring range, vented bonnet, Wika pressure indicator Process Gas: Instrument Gas Application: Auto Louvers	Rev. # 0
PDCV-225	R/S Differential Pressure Control Valve Model 3/4" A4ALEA Fail Open, set @ 50 psid c/w 3/4" 17% reduced plug, 3/4" NPT connections, test pressure certified 450 psig Process Fluid: Compressor Lube Oil	Rev. # 0
PDI-144	Mid-West Differential Pressure Gauge Model: 120-AA-02-L00-105 kPad/0-15 psid c/w dual scale, 2 1/2" dial, 1/4" FNPT, in-line connections, aluminum body, S/S piston, Buna N seals, liquid filled Process Fluid: Natural Gas Application: Suction Filter	Rev. # 4

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PI-133	Wika Local Mounted Pressure Gauge Model # 233.34 c/w dual scale, 0 to 700 kPag/0 to 100 psig, 4.5" dial, 316 SS wetted parts, 1/2" NPT lower connection, liquid filled Process Fluid: Natural Gas Application: Blowcase Pressure Indicator	Rev. # 2
PI-142	Wika Local Mounted Pressure Gauge Model # 233.34 c/w dual scale, 0 to 400 kPag/0 to 100 psig, 4.5" dial, 316 SS wetted parts, 1/2" NPT lower connection, liquid filled Process Fluid: Natural Gas Application: Suction Pressure Indicator	Rev. # 2
PI-143	Wika Local Mounted Pressure Gauge Model # 233.34 c/w dual scale, 0 to 400 kPag/0 to 100 psig, 4.5" dial, 316 SS wetted parts, 1/2" NPT lower connection, liquid filled Process Fluid: Natural Gas Application: Suction Filter Pressure Indicator	Rev. # 2
PI-145	WIKA Local Mounted Pressure Gauge Model # 233.34 c/w dual scale, 0 to 2100 kPag/0 to 400 psig, 4.5" dial, 316 SS wetted parts, 1/2" NPT lower connection, liquid filled Process Fluid: Natural Gas Application: Discharge Pressure (Upstream PV-160)	Rev. # 2
PI-146	WIKA Local Mounted Pressure Gauge Model # 233.34 c/w dual scale, 0 to 2100 kPag/0 to 400 psig, 4.5" dial, 316 SS wetted parts, 1/2" NPT lower connection, liquid filled Process Fluid: Natural Gas Application: Discharge Pressure (Downstream PV-160)	Rev. # 2
PI-224	Wika Local Mounted Pressure Gauge Model # 233.54 c/w dual scale, 0 to 2750 kPag/0 to 400 psig, 4" dial, 316 SS tube, socket and tip material, 1/2" NPT lower connection, liquid filled, blow out plug Process Fluid: Compressor Oil Application: Suction End Bearing Supply	Rev. # 0
PI-227	WIKA Local Mounted Pressure Gauge Model # 233.34 c/w dual scale, 0 to 2100 kPag/0 to 400 psig, 4.5" dial, 316 SS wetted parts, 1/2" NPT lower connection, liquid filled Process Fluid: Natural Gas/Compressor Oil Application: Oil Separator Pressure	Rev. # 2
PI-306A	Local Mounted Pressure Gauge c/w 0-100 psig/0-600 kPag scale Process Fluid: Engine Oil Application: Engine Oil Pressure Indicator <b>Note: supplied with, and mounted on Engine</b>	Rev. # 0
PI-308A	Local Mounted Pressure Gauge c/w 0-50 psig/0-300 kPag scale Process Fluid: Engine Manifold Air Application: Engine Manifold Air Pressure Indicator <b>Note: supplied with, and mounted on Engine</b>	Rev. # 0

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PI-322	Wika Local Mounted Pressure Gauge Model # 233.53 c/w dual scale, 0 to 700 kPag/0 to 100 psig, 2½" dial, 316 SS tube, socket and tip material, ¼" NPT lower connection, liquid filled, blow out plug Process Fluid: 50/50 Glycol Application: Glycol Pump Discharge Pressure	Rev. # 0
PI-357	Wika Local Mounted Pressure Gauge Model # 233.34 c/w dual scale, 0 to 2100 kPag/0 to 300 psig, 4.5" dial, 316 SS wetted parts, ½" NPT lower connection, liquid filled Process Fluid: Natural Gas/Condensate Application: Fuel Gas Scrubber Pressure Indicator	Rev. # 2
PSV-101	Farris Pressure Safety Valve Model # 27EA34-M20 Set at 245 psig c/w 1" MNPT inlet x 1½" FNPT outlet connection, 'E' orifice, carbon steel cylinder, 316 SS base, disc and disc insert Based on fire Process Fluid: Natural Gas Application: Suction Filter PSV	Rev. # 0
PSV-142	Farris Pressure Safety Valve Model # 27DA23-M20 Set at 375 psig c/w ¾" MNPT inlet connection x 1" FNPT outlet connection, 0.110 in <sup>2</sup> orifice ("D" designation), standard materials, conventional style, complies with NACE on primary zone Based on fire Process Fluid: Natural Gas	Rev. # 0
PSV-212	Farris Pressure Safety Valve Model 26KA12 Set at 275 psig c/w 3"-300# ANSI inlet x 4"-150# ANSI outlet connection, "K" orifice, carbon steel body and bonnet, 316 SS trim Based on Full Flow C-1 Process Fluid: Natural Gas Application: Oil Separator PSV	Rev. # 2
PSV-300	Farris Pressure Safety Valve Model# 26EA10-120 Set at 110 psig c/w 1"-150# inlet connection, 2"-150# outlet connection, 0.196 in <sup>2</sup> orifice ("E" designation), standard materials, conventional style, complies with NACE on primary zone. Based on full flow of PCV-213A Process Fluid: Natural Gas	Rev. # 0
PT-200	BOURDON Intrinsically Safe Transmitter Model # Y-913-057-H22, 0 to 160 psig range c/w 4-20 mA output, ¼" MNPT process connection, 316 SS, Kalrez 4079 & Ceramic AL203 wetted parts, 316 SS body, 290 psig maximum pressure, 400 psig burst pressure, Cl. 1, Div.1, Gr. A, B, C, D (intrinsically safe), CSA approved Process Fluid: Natural Gas	Rev. # 0
PT-202	BOURDON Intrinsically Safe Transmitter Model # Y-913-057-H26, 0 to 400 psig range c/w 4-20 mA output, ¼" MNPT process connection, 316 SS, Kalrez 4079 & Ceramic AL203 wetted parts, 316 SS body, 720 psig maximum pressure, 1080 psig burst pressure, Cl. 1, Div.1, Gr. A, B, C, D (intrinsically safe), CSA approved Process Fluid: Compressor Lube Oil	Rev. # 0

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PT-204	BOURDON Intrinsically Safe Transmitter Model # Y-913-057-H26, 0 to 400 psig range c/w 4-20 mA output, 1/4" MNPT process connection, 316 SS, Kalrez 4079 & Ceramic AL203 wetted parts, 316 SS body, 720 psig maximum pressure, 1080 psig burst pressure, Cl. 1, Div.1, Gr. A, B, C, D (intrinsically safe), CSA approved Process Fluid: Compressor Lube Oil/Natural Gas	Rev. # 0
PT-207	BOURDON Intrinsically Safe Transmitter Model # Y-913-057-H26, 0 to 400 psi range c/w 4-20 mA output, 1/4" MNPT process connection, 316 SS, Kalrez 4079 & Ceramic AL203 wetted parts, 316 SS body, 720 psig maximum pressure, 1080 psig burst pressure, Cl. 1, Div.1, Gr. A, B, C, D (intrinsically safe), CSA approved Process Fluid: Compressor Lube Oil	Rev. # 0
PT-306	BOURDON Intrinsically Safe Transmitter Model # Y-913-057-H22, 0 to 160 psig range c/w 4-20 mA output, 1/4" MNPT process connection, 316 SS, Kalrez 4079 & Ceramic AL203 wetted parts, 316 SS body, silicone oil transmitting fluid, 290 psig max. pressure, 400 psig burst pressure Cl. 1, Div.1, Gr. A, B, C, D (intrinsically safe) CSA approved Process Fluid: Engine Oil	Rev. # 0
PT-308	BOURDON Intrinsically Safe Transmitter Model # Y-913-057-H75, 30"-0-30 psi range c/w 4-20 mA output, 1/4" MNPT process connection, 316 SS, Kalrez 4079 & Ceramic AL203 wetted parts, 316 SS body, 40 psig maximum pressure, 80 psig burst pressure, Cl. 1, Div.1, Gr. A, B, C, D (intrinsically safe), CSA approved Application: Manifold Pressure	Rev. # 0
PT-325	Caterpillar AFR Control Intake Manifold Pressure Transmitter Application: Engine Intake Manifold Pressure <b>Note: integral to Cat AFR Controller - supplied with Engine - see 325</b>	Rev. # 0
PT-328	BOURDON Intrinsically Safe Transmitter Model # Y-913-057-H22, 0 to 160 psig range c/w 4-20 mA output, 1/4" MNPT process connection, 316 SS, Kalrez 4079 & Ceramic AL203 wetted parts, 316 SS body, 290 psig maximum pressure, 400 psig burst pressure, Cl. 1, Div.1, Gr. A, B, C, D (intrinsically safe), CSA approved Process Fluid: Gearbox Lube Oil Application: Gearbox Oil Pressure	Rev. # 0
PV-134	Fisher Control Valve Model # D2 FloPro c/w 1" NPT connections, ASME Class 900 pressure rating, field reversible actuator ( <b>order as fail closed</b> ), adjustable port sizes between 1/4", 3/8" and 1/2", erosion service trim, low temp. materials, tee body style, Enviro-Seal D2 PTFE packing, NACE compliant trim Process Fluid: Natural Gas Application: Blowcase Power Gas <b>Note: set port size at 1/2"</b>	Rev. # 0
PV-150	Fisher Flow Control Valve Model 2" 300 ANSI 1052/V200 c/w 2"-300# connections, WCC steel body, TCM ball seal, 317 SST Chrome plated V-ball, TFE packing, 1052 <b>size 20 fail open actuator</b> , style "A", position 1, right hand mount, 67CFR/SPEC filter regulator, 316 SS tubing and fittings Process Fluid: Natural Gas Application: Bypass Control Valve	Rev. # 0



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PV-159	Fisher Pressure Control Valve Model 8"-300 ANSI 1051/V200 <b>Encore</b> Control Valve c/w 8"-300# connections, WCC steel body, TCM ball seal, 317 SST Chrome plated V-ball, TFE packing, 1051 <b>size 60 fail closed</b> actuator, style "B", position 3, right hand mount, 67CFR/SPEC filter regulator Process Fluid: Natural Gas Application: Suction Control Valve	Rev. # 0
PV-160	Fisher Flow Control Valve Model 6" 300 ANSI 1051/V200 Control Valve c/w 6"-300# connections, WCC steel body, TCM ball seal, 317 SST Chrome plated V-ball, TFE packing, 1051K <b>size 60 fail open actuator</b> , style "A", position 1, right hand mount, 67CFR/SPEC filter regulator, 316 SS tubing and fittings Process Fluid: Natural Gas Application: Discharge Control Valve	Rev. # 0
PV-161	Fisher Control Valve Model # D2 FloPro c/w 1" NPT connections, ASME Class 900 pressure rating, field reversible actuator ( <b>order as fail open</b> ), ½" port size, erosion service trim, tee body style, Enviro-Seal D2 PTFE packing Process Fluid: Natural Gas Application: Auto Blowdown Valve	Rev. # 0
SE-312	Dynalco Electromagnetic Speed Sensor Model M204 c/w 2½" long 5/8"-18 UNF shaft c/w locknut, 0.187" diam. pole piece, PIC 32C-101 pick-up connector kit, 2-pin straight clamp, rated Intrinsic Safe, CSA approved Application: Engine Speed	Rev. # 0
SE-325	Caterpillar Electromagnetic Speed Sensor Application: Engine Speed <b>Note: integral to Cat AFR Controller - supplied with Engine - see 325</b>	Rev. # 0
TC-321	Kimray Temperature Controller Model T12, indirect acting, bimetal strip, - 30 to 400° F c/w 12" probe, Adjustable Set Point, 3-15 psig output signal Process Fluid: Instrument Gas Application: Auto Louvers. <b>Note: Not Supplied with Gas Cooler</b>	Rev. # 0
TCV-220	3-way Thermostatic Control Valve Make: Fluid Power Model # 2½" S2510X-150 c/w 2½"-300# connections, 150° F element full open at 160° F, 3.5 psi drop at 140 USGPM using SAE 30 at 140° F, standard trim, Buna N oil rings, steel body rated to 350 psi Process Fluid: Compressor Lube Oil	Rev. # 0
TE-209	Alltemp RTD Assembly Series: 7000 Model: AF-7113-T03-2-14-R-3-LT-3-4.5 c/w ½" NPT process connection, ¾" NPT conduit connection, 3 terminal block, 100 Ohm Pt, ¼" probe diameter, 316 SS probe, 3 wire, low temp. max. 200° C rating, "N" length 3", "A" length 4½", XP connection head assembly, 304 SS stepped thermowell, ¾" NPT process connection Process Fluid: Compressor Lube Oil Application: Compressor Oil Header Temperature	Rev. # 0

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TE-215	Alltemp RTD Assembly Series: 7000 Model: AF-7113-T03-2-14-R-3-LT-3-7.5 c/w 1/2" NPT process connection, 3/4" NPT conduit connection, 3 terminal block, 100 Ohm Pt, 1/4" probe diameter, 316 SS probe, 3 wire, low temp. max. 200° C rating, "N" length 3", "A" length 7 1/2", XP connection head assembly, 304 SS stepped thermowell, 3/4" NPT process connection Process Fluid: Natural Gas/Compressor Lube Oil Application: Discharge Temperature	Rev. # 0
TE-309	Alltemp Resistance Temperature Detector Type RD – Flexible Armored Leads RTD RD-S-1-14-3-UT-R-3-240-6, 1/10 DIN RTD c/w single circuit, 100 Ohm Pt, 1/4" probe diameter, 316 SS probe, 6" probe length, 20' cable length, 3 wire armored cable Application: Manifold Temperature <b>Note: TPS to supply compression fitting to mount RTD in manifold</b>	Rev. # 0
TE-310	Alltemp Resistance Temperature Detector Type RD – Flexible Armored Leads RTD RD-S-1-14-3-UT-R-3-240-7.5, 1/10 DIN RTD c/w single circuit, 100 Ohm Pt, 1/4" probe diameter, 316 SS probe, 7 1/2" probe length, 20' cable length, 3 wire armored cable Process Fluid: JW 50/50 Glycol <b>Note: TPS to supply 304 SS thermowell and compression fitting to mount RTD on Engine</b>	Rev. # 0
TE-323	Alltemp Resistance Temperature Detector Type RD – Flexible Armored Leads RTD RD-S-1-14-3-UT-R-3-240-6.0, 1/10 DIN RTD c/w single circuit, 100 Ohm Pt, 1/4" probe diameter, 316 SS probe, 6.0" probe length, 20' cable length, 3 wire armored cable Process Fluid: Engine Lube Oil <b>Note: TPS to supply 304 SS thermowell and compression fitting to mount RTD on Engine</b>	Rev. # 0
TE-325	Caterpillar AFR Control Intake Manifold Temperature Sensor Application: Intake Manifold Temperature <b>Note: integral to Cat AFR Controller - supplied with Engine - see 325</b>	Rev. # 0
TE-327	Alltemp RTD Assembly Series: 7000 Model: AI-7113-T03-2-14-R-3-LT-24-8 c/w 1/2" NPT process connection, 3/4" NPT conduit connection, 3 terminal block, 100 Ohm Pt, 1/4" probe diameter, 316 SS probe, 3 wire, low temp. max. 200° C rating, probe length 8", armored cable, 24" long Process Fluid: Gearbox Lube Oil Application: Gearbox Lube Oil Temperature <b>Note: TPS to supply 304 SS thermowell and compression fitting to mount RTD on Gearbox</b>	Rev. # 0
TE-340A-P	Type "K" Thermocouple Application: Engine cylinder exhaust temperature <b>Note: wired to Cat Panel</b>	Rev. # 0
TI-340	Temperature Scanner/Pyrometer Make: Caterpillar Supplied with Engine	Rev. # 0
TY-321	Garzo Pneumatic Actuator Model 501-12 Pneumatic Input: 6 to 30 psi Process Fluid: Instrument Air Application: AC Auto-Louvers <b>Note: supplied with Air-X</b>	Rev. # 0

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<b>Bill of Materials</b>		<b>BOM</b>
<b>Name:</b>	<b>11643 Husky 1150HP 355L</b>	<b>Rev. # 4</b>
<b>Location:</b>	<b>Dry Island 13-30-034-22-W4M (DR2)</b>	<b>GM</b>
<b>Tag #</b>	<b>Item Description</b>	
UV-135	Fisher Switching Valve Model # 164A c/w 1/2" NPT connections ports A, B, C, max. valve body pressure 250 psi, spring range 30-60 psi Process Fluid: Instrument Gas Application: Blowcase Operation	Rev. # 0
UV-137A	SMC Flow Control Valve Model # NAS 4000-NO2 c/w 1/4" NPT connections, 316 SS needle and seat, Buna N check Process Fluid: Instrument Gas Application: Blowcase Operation	Rev. # 0
UV-137B	SMC Flow Control Valve Model # NAS 4000-NO2 c/w 1/4" NPT connections, 316 SS needle and seat, Buna N check Process Fluid: Instrument Gas Application: Blowcase Operation	Rev. # 0
UV-222	Worcester Automatic Switching Valve Model 3/4"-446RV-SE/10-39RSN c/w CS body, SS ball and stem, NPT end connection. Worcester Model 10-39RSN spring return pneumatic actuator Process Fluid: Compressor Lube Oil Application: Compressor Balance Piston	Rev. # 0
UV-302	Amot High Pressure Control Valve Model 4418E-6A6C 2" FNPT pipe size, 3-way normally closed version, low pilot pressure valve (50 psi), SS body Process Fluid: Fuel Gas Application: Fuel Gas Supply	Rev. # 0
UV-304	TDI Starter Relay Valve Model RLVA-25683001201 (for gas) aluminum valve body, nickel plated aluminum internals, Buna O-rings, pneumatically controlled for operation with compressed natural gas, 1 1/2" inlet x 1 1/2" outlet, pilot operated Process Fluid: Starter Gas Application: Starter Gas Supply	Rev. # 0
UV-305	Fisher Switching Valve Model 119 Set at 30 psi c/w 1" NPT connection, 1/4" orifice, 30-60 psi spring range, 150 psi max. pressure Process Fluid: Instrument Air Application: Engine Pre-Lube Pump	Rev. # 0
UY-150	Fairchild I/P XP Transducer Model TCXI7800-403EN c/w 4 to 20 mA input signal, 6 to 30 psig output, 35 psi input gas req'd, tapped exhaust, nat. gas media approval (Gr. D gases), rated XP/intrinsically safe c/w Headline 315A-1/4"-70C-S coalescing filter Process Fluid: Instrument Gas Application: Bypass Control Valve	Rev. # 0
UY-159	Fairchild I/P XP Transducer Model TCXI7800-403EN c/w 4 to 20 mA input signal, 6 to 30 psig output, 35 psi input gas req'd, tapped exhaust, nat. gas media approval (Gr. D gases), rated XP/intrinsically safe c/w Headline 315A-1/4"-70C-S coalescing filter Process Fluid: Instrument Gas Application: Suction Control Valve	Rev. # 0

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<b>Bill of Materials</b>		<b>BOM</b>
<b>Name:</b>	<b>11643 Husky 1150HP 355L</b>	<b>Rev. # 4</b>
<b>Location:</b>	<b>Dry Island 13-30-034-22-W4M (DR2)</b>	<b>GM</b>
<b>Tag #</b>	<b>Item Description</b>	
UY-160	Fairchild I/P XP Transducer Model TCXI7800-403EN c/w 4 to 20 mA input signal, 6 to 30 psig output, 35 psi input gas req'd, tapped exhaust, nat. gas media approval (Gr. D gases), rated XP/intrinsically safe c/w Headline 315A-1/4"-70C-S coalescing filter Process Fluid: Instrument Gas Application: Discharge Control Valve	Rev. # 0
UY-161	Asco Solenoid Valve Model EF8314G301-24 c/w 1/4" NPT connections, 3/32" orifice, 3-way normally closed (closed when de-energised), 24 VDC explosion proof Class 1, Div. I, Gr. D coil, 1.4 W @ 20° C, CSA approved Process Fluid: Instrument Air Application: Auto Blowdown	Rev. # 1
UY-201A/B	Vickers Solenoid Operated 4-Way Valve Solenoid Model # DG4S4LW-012C-H-60-S599 Sub Base Model # DGSM-01-20-T8 Bolt Kit Model # BKDG01-633 c/w 4-way spring return to closed centre spool, stronger spring, mounting subplate and bolt kit, 24 VDC coils, bottom inlet/outlet, 1/2" NPT connections, CSA approved Process Fluid: Compressor Lube Oil Application: Slide Valve Control	Rev. # 0
UY-222	Asco Solenoid Valve Model EF8320G202-24 c/w 1/4" NPT connections, 3/32" orifice, 3-way normally closed (closed when de-energised), 24 VDC explosion proof Class 1, Div. I, Gr. D coil, 11.6 W @ 20° C, CSA approved Process Fluid: Instrument Air Application: Compressor Balance Piston	Rev. # 0
UY-222	Asco Solenoid Valve Model EF8314G301-24 c/w 1/4" NPT connections, 3/32" orifice, 3-way normally closed (closed when de-energised), 24 VDC explosion proof Class 1, Div. I, Gr. D coil, 1.4 W @ 20° C, CSA approved Application: Compressor Balance Piston	Rev. # 1
UY-302	Asco Solenoid Valve Model EF8314G301-24 c/w 1/4" NPT connections, 3/32" orifice, 3-way normally closed (closed when de-energised), 24 VDC explosion proof Class 1, Div. I, Gr. D coil, 1.4 W @ 20° C, CSA approved Process Fluid: Instrument Air Application: Fuel Gas Supply	Rev. # 1
UY-304	Asco Solenoid Valve Model EF8314G301-24 c/w 1/4" NPT connections, 3/32" orifice, 3-way normally closed (closed when de-energised), 24 VDC explosion proof Class 1, Div. I, Gr. D coil, 1.4 W @ 20° C, CSA approved Process Fluid: Instrument Air Application: Start Gas Supply	Rev. # 1
UY-305	Asco Solenoid Valve Model EF8314G301-24 c/w 1/4" NPT connections, 3/32" orifice, 3-way normally closed (closed when de-energised), 24 VDC explosion proof Class 1, Div. I, Gr. D coil, 1.4 W @ 20° C, CSA approved Process Fluid: Instrument Air Application: Engine Pre-Lube Pump	Rev. # 1

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<b>Bill of Materials</b>		<b>BOM</b>
<b>Name:</b>	<b>11643 Husky 1150HP 355L</b>	<b>Rev. # 4</b>
<b>Location:</b>	<b>Dry Island 13-30-034-22-W4M (DR2)</b>	<b>GM</b>
<b>Tag #</b>	<b>Item Description</b>	
UY-325	Caterpillar Fuel Metering Block Application: Engine Air/Fuel Ratio Control <b>Note: integral to Cat AFR Controller - supplied with Engine - see 325</b>	Rev. # 0
VSHH-203	Murphy Vibration Switch Model # VS2-EX c/w manual reset, 2-SPDT snap-switches, XP Enclosure. Cl. 1, Div. 1, Gr. C & D CSA approved Application: Compressor Vibration	Rev. # 0
VSHH-307	Murphy Vibration Switch Model # VS2-EX c/w manual reset, 2-SPDT snap-switches, XP Enclosure. Cl. 1, Div. 1, Gr. C & D CSA approved Application: Engine Vibration	Rev. # 0
VSHH-320	Murphy Vibration Switch Model # VS2-EX c/w manual reset, 2-SPDT snap-switches, XP Enclosure. Cl. 1, Div. 1, Gr. C & D CSA approved Application: Cooler Vibration	Rev. # 0
VSHH-326	Murphy Vibration Switch Model # VS2-EX c/w manual reset, 2-SPDT snap-switches, XP Enclosure. Cl. 1, Div. 1, Gr. C & D CSA approved Application: Gear Box Vibration	Rev. # 0
ZE-201	Bourns Slide Valve Potentiometer Model 6637 1 kOhm, 1 turn, 25 Ohm @ 0% slide valve 829 Ohm (282 degrees) @ 100% & 2.2 VI 506 Ohm (172 degrees) @ 100% & 5.1 VI Function: Slide Valve position indication <b>Note: supplied with Compressor</b>	Rev. # 0
100	CP-1 TPS Control Panel Make: Allen Bradley Model: CompactLogix c/w Front access enclosure, 24 VDC Power Supply	Rev. # 0
101	V-1 Horizontal Suction Filter Size: 54" ID x 120" S/S MAWP: 245 psig @ 250° F, MDMT: -20° F @ 245 psig, C.A.: 0.0625" c/w 10"-150# RFWN inlet/outlet, (16) JPMG-36349-V elements <b>Register in AB, BC and SK</b> <b>Note: manufactured by TPS</b>	Rev. # 0
157	V-4 Blowcase Size: 20" O.D. X 96" S/S MAWP: 375 psig @ 250°F, MDMT: -20 deg F @ 375 psig, C.A.: 0.0625" <b>Registered For AB, BC and SK.</b> <b>Note: Manufactured By TPS.</b>	Rev. # 0
200	C-1 Frick Screw Compressor Model # TDSH-355L c/w 14"-300# suction flange, 10"-300# discharge flange, Slide Valve potentiometer Design Pressure: 350 psig <b>Note: set Compressor Vi at 5</b>	Rev. # 0
201	Rexnord (Thomas) Flexible Disc Coupling Spacer Type Series 71 size 512, HP/100 RPM rating @ 2.0 S.F. = 43.6 Spacer Length: 7.0" (standard DBSE) Bore Gearbox Hub: 3.124" to 3.125" with ¼" keyway Bore Compressor Hub TDSH 355: 3.749" to 3.750" - <b>do not machine keyway</b>	Rev. # 0

**Bill of Materials****BOM****Name:** 11643 Husky 1150HP 355L**Rev. # 4****Location:** Dry Island 13-30-034-22-W4M (DR2)**GM**

<b>Tag #</b>	<b>Item Description</b>	
201A	RingFeder Shrink Disc Model # 140RfN4071 Part # 2279091 <b>Note: to be mounted on machined compressor hub</b>	Rev. # 0
202	V-2 Oil Separator Size: 48" ID x 102" S/S MAWP: 350 psig @ 250° F, MDMT: -20° F @ 350 psig, C.A.: 0.0625" Elements: (7) RSC11753 c/w 8"-300# RF inlet/outlet connections Register in AB, BC and SK <b>Note: manufactured by TPS</b>	Rev. # 0
203	E-1 Viex Oil Cooler Model # VXN-46-SS-FS-1-150 145 plates MAWP: 400 psig @ 250° F c/w 3"-300# ANSI connections	Rev. # 0
204	F-1 Compressor Oil Filter Size: 8 5/8" OD x 27 1/2" S/F MAWP: 400 psig @ 250° F, MDMT: -20° F @ 400 psig, C.A.: 0.0625" c/w (1) 1833C05 5-micron element, 2"-300# inlet/outlet Process Fluid: Compressor Oil Application: Bearing and Slide Valve Cylinder Filter Register in AB, BC and SK	Rev. # 0
206	Compressor Supports Make: Vibracon Model: SM-20 Part # SM20CS Quantity: 4 c/w carbon steel material, bolt size 1", 3.937" diameter, 1.772" nominal height, 1.575" minimum height, 1.969" maximum height, 1.102" bolt hole Application: Compressor Mounts	Rev. # 0
300	F-2 Fuel Gas Scrubber 6 5/8" OD x 48 1/2" S/FOF Filter Element: Peco model # FG-312 c/w 2" NPT connections, MAWP 245 psig at 250° F Register in AB, BC and SK <b>Note: manufactured by TPS</b>	Rev. # 0

**Bill of Materials****BOM****Name:** 11643 Husky 1150HP 355L**Rev. # 4****Location:** Dry Island 13-30-034-22-W4M (DR2)**GM**

<b>Tag #</b>	<b>Item Description</b>	
301	<p>H-1A Cata-Dyne Infra-Red Heater Model # WX-24x48 12 VDC CSA Rated Input of 32,000 Btu/hr Rated Output 48,000 Btu/hr Class 1 Division 1, Group D, CSA approved</p> <p>H-1B Cata-Dyne Infra-Red Heater Model # WX-24x48 12 VDC CSA Rated Input of 32,000 Btu/hr Rated Output 48,000 Btu/hr Class 1 Division 1, Group D, CSA approved</p> <p>H-1C Cata-Dyne Infra-Red Heater Model # WX-24x48 12 VDC CSA Rated Input of 32,000 Btu/hr Rated Output 48,000 Btu/hr Class 1 Division 1, Group D, CSA approved</p> <p>Heater Package(s) Include: Protective Grill, 25' startup leads, Low Temperature Safety Shutoff Valve, Maxitrol Pressure Regulator for ½ psi to 7" WC, Temperature Control Thermostat, Pressure Regulator for Maximum 250 psi to 11" WC, 3/8" NPT Isolation Valve</p>	Rev. # 0
302	<p>P-3 Engine Pre-lube Pump Make: Warren Rupp Sandpiper II Model: G1FB1ABTXNSX00 c/w aluminum body, Buna-N ball and diaphragm, PTFE seat, 1" NPT suction and discharge connections, ½" NPT gas inlet, 1" NPT exhaust Output: 25 GPM @ 20 psig supply and 5 psig head, 45 GPM @ 80 psig supply and 5 psig head (based on water) Process Fluid: Engine Oil <b>Note: max. supply pressure 100 psig</b></p>	Rev. # 0
303	<p>T-4/5 Used Glycol/Oil Storage Tanks (2) 8" x 12" HSS x 447" LG, 315 USGAL each c/w drain, vent <b>Note: manufactured by TPS</b></p>	Rev. # 0
306	<p>CE-1 Caterpillar Engine Model # G3516AFRC c/w low-emission natural gas power unit, 8:1 compression ratio, Turbo Charged, front stub shaft, SAE-21 single-inertia flywheel (25¼" BC diameter, 0.00" offset), SAE-00 flywheel housing, Caterpillar CSA ignition, shallow oil pan, Caterpillar gauge panel, ledge rails Note: Engine to be mounted on Vibracon SM-20 standard machine supports (see 328)</p>	Rev. # 0
306A	<p>CE-1 Caterpillar Engine Cylinder Pyrometer System <b>PYRO HARNESS, G3516 Cat, BACK, 30', 16Pts. c/w-PROBES</b> <b>P/N 61PG3516AB30K16P</b> <b>c/w Digital readout TMP100-14, 31/2-DIGIT LCD, 19-POINT PYROMETER, K</b> <b>3 hour install by PIC included in price.</b> <b>Display to be mounted in stock CAT Panel.</b></p>	Rev. # 2
307	<p>TDI Turbostart Engine Turbine Pneumatic Starter Model # T121-60001-B1R-1 Low Pressure Starter c/w 2" inlet, 3" NPT exhaust, right hand rotation, inertia drive, 30-90 psig op. pressure range, 2028 SCFM req'd flow @ 90 psig supply pressure model # 52-419 3" FNPT straight exhaust kit <b>Note: Low Pressure Starter for Cat 3516TA</b></p>	Rev. # 0

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<b>Name:</b>	<b>11643 Husky 1150HP 355L</b>	<b>Rev. # 4</b>
<b>Location:</b>	<b>Dry Island 13-30-034-22-W4M (DR2)</b>	<b>GM</b>
<b>Tag #</b>	<b>Item Description</b>	
308	T-2A/B Engine Oil Day Tank 8" x 12" HSS x 418" LG 156 USGAL c/w 1" NPT fill/drain, ½" NPT level gauge and vent <b>Note: manufactured by TPS</b>	Rev. # 0
309	Baldwin Filter Assembly Model BF-914 assembly Model BF-915 Filter c/w 1" NPT inlet/outlet Process Fluid: Engine Oil Application: Filter make-up oil to LIC-314	Rev. # 0
310	T-1A/B Engine Glycol Expansion Tanks TAW & CLOW 12" x 12" HSS x 48" LG., 30 US gallons each c/w 1" NPT fill/drain, level gauge, vent <b>Note: manufactured by TPS</b>	Rev. # 0
311	Input End Sheave Configuration <b>Engine:</b> (1) 8.40" OD, 8.0" datum, 6-groove 'C' section sheave, E2-1/2 bushing <b>Note: Stub Shaft supplied with Engine to be used</b>  <b>Jack Shaft In:</b> (1) 12.4" OD, 12.0" datum, 6-groove 'C' section sheave, F2-15/16 bushing	Rev. # 0
312	P-4 C.L.O.W. Glycol Pump Design Flowrate: 200 GPM at 40 ft H2O Process Fluid: 50/50 Glycol <b>Note: Pump Supplied and Mounted on Engine</b>	Rev. # 0
313	Exhaust System for Caterpillar 3516TA  <b>(1) Silex Hospital Plus Grade Silencer JDDPR-12-SISO312-F14-Fo14-AL-A</b> c/w 12"-125# FF inlet and outlet connections, side in at 3 o'clock, side out at 12 o'clock, gussets on outlet, "Fi" and "Fo" dimensions minimum, 1½" shell drains located for bottom entry, aluminized steel, aluminum paint  <b>(1) Silex 8" OD x 8" OD flexible exhaust connector part # FF-8-12-243 (or equal)</b> <b>(2) Silex 12"-125# FF single weld-on flange kits part # AC-W1-012 (or equal)</b> <b>(1) Silex 12" dual weld-on flange kit part # AC-W2-012 (or equal)</b> <b>(1) Silex 12" Expansion Joint, part # EJ-127-015-7.75 (or equal)</b>	Rev. # 0
314	E-2 Air-X-Hemphill Heat Exchanger Model # 144EF-102-24 97° F Ambient Design Temp. c/w 3 sections (AfterCooler, Engine Jacket Water, Engine Turbo Water & Oil Cooler), 8"-300# RFWN gas inlet/outlet, 6"-150# RFWN EJW and TAW/CLOW connections, mounted enclosed slide type idler, auto louvers on outlet of gas with Garzo actuator, on water sections, Harvest Gold paint color, SA179 tubes in gas section only MAWP (gas) 350 psig @ 300° F, MDMT (gas) -50° F @ 350 psig (low temp materials) MAWP (glycol) 14 psig @ 300° F, MDMT (glycol) -20° F @ 14 psig registered in AB, BC and SK Fan: Moore Class 60VT-HD, 10-blade, 259 RPM, 184,889 SCFM, low-noise design, @ 1 m, 69 dBA @ 15 m jackshaft driven from engine <b>Note: Cooler to be supplied with rigid bud screens</b>	Rev. # 0  Manual louvres  86 dBA



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<b>Tag #</b>	<b>Item Description</b>	
315	<p>Jack Shaft 2 15/16" finished diameter x 108" long, cold rolled steel (exact length to be confirmed once fitted) <b>Note: cut keyway (3/4" x 3/8" x 10") on ends of both jackshafts</b></p> <p>c/w Dodge S-2000 pillow blocks good for 2 15/16" shaft (2) Part # P2BS2044627 Non-expansion type (2) Part # P2BS2044655 Expansion type</p> <p>Note: Try to locate pillow blocks within 10" of the end sheaves</p>	Rev. # 0
316	<p>Output End Sheave Configuration <b>Jack Shaft Out:</b> (1) 12.4" OD, 12.0" DD, 6-groove 'C' section sheave, F2-15/16 bushing <b>Cooler Input:</b> (1) 36.4" OD, 36.0" DD, 6-groove 'C' section sheave, J2-15/16 bushing <b>Idler:</b> (1) 12.4" OD, 12.0" DD, 7-groove 'C' section sheave, F2-3/16 bushing</p>	Rev. # 0
317	<p>S-1 Pacific Rim Gear Box Model EMPB 0800B DDI rated for 1340 HP Coaxial Gear Increaser, 1800 -3600 RPM output range, SAE 00 flywheel housing bolt pattern, 34.54" F/S dimension, forced lubrication c/w shaft driven oil pump, shell and tube heat exchanger c/w thermal valve Pacific Rim reference drawing # 20-2621-OP3 Input Coupling: Flender ESN-680-NX coupling Ratio: 1:2.786 - 1200 RPM in/3344 RPM out</p>	Rev. # 0
318	<p>5-ton Bridge Crane wheels to run on 2"x2" square bar with a centre to centre span of 5850 mm</p>	Rev. # 0
319	<p>1½" NexFlow Ring Vac Aluminum Line-Vac Venturi Part No. 30003 Application: Engine Crankcase Evacuator <b>Note: Venturi will be mounted and air supply from the Turbo will be tubed in by TPS. 2" pipe will have to be run from Engine to exhaust stack</b></p>	Rev. # 0
321	<p>Warm Air Mixing Box for Engine Intake Air c/w: 12"-125# FF flanges <b>Note: warm air supply to be taken from Cooler plenum</b></p>	Rev. # 0
328	<p>Qty 8 Engine Supports Make: Vibracon Model: SM-20, part # SM20CS carbon steel material, c/w 1" bolt size, 3.937" diameter, 1.772" nominal height, 1.575" minimum height, 1.969" maximum height, 1.102" bolt hole Application: Engine Mounts</p>	Rev. # 0
330	<p>P-5 Glycol Transfer Pump Make: Warren Rupp Sandpiper II Model: G05B1ABTXNSX00 c/w: Aluminum body, Buna ball and diaphragm, PTFE seat, 1" external NPT suction and discharge connections (1/2" internal NPT suction and discharge connections), 1/4" NPT gas inlet, 3/8" NPT exhaust. Output: 7 GPM @ 20 psig supply and 5 psig head, 15 GPM @ 80 psig supply and 5 psig head. (based on water) Process: 50/50 Glycol Application: Glycol Transfer Pump Note: Max Supply Pressure 100 psig</p>	Rev. # 0
335	<p>FPS Lube Oil Centrifuge FPE-M1000-OCB 16GPM capacity</p>	Rev. # 1

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<b>Tag #</b>	<b>Item Description</b>	
355	G-1 MPI 24 VDC Generator & Division II Battery Box System Model # 23-10-080-678/MB 24 VDC Generator Model # 10-080-678/BB2 Division II Battery Box c/w mounting bracket, 6' universal link belt, 4.00" datum 1 groove sheave & hub assy, 24 VDC 100 Amp-Hr Division II battery box enclosure system Low Voltage Protection Included <b>Note: Generator to be run off of the extra groove on the cooler idler.</b>	Rev. # 0
400	Building, Self-Framing 36'-9" L x 21' W x 15' E Note: Building Heights From Top Of Steel. c/w 22 Ga Pre-painted Steel Exterior Tan (5MQC315) walls with Metro Brown (5M-QC-228) roof, trim and doors) 20 Ga Fluted Aluminum Interior <b>R-12 fiberglass wall/roof insulation</b> (1) 6' x 7' Mandoor c/w locking panic hardware, hinges, weather stripping, threshold, check chain, sweep, single glazed window in non-fixed door, canopy (1) 6' x 8' Mandoor c/w locking panic hardware, hinges, weather stripping, threshold, check chain, sweep, single glazed window in non-fixed door, canopy (1) Jackshaft mandoor (32" x 7' blank door c/w locking panic hardware, hinges, weather stripping, threshold, check chain, sweep) (1) 12" x 12" utility hatch (1) 9" Continuous roof ridge vent (2) 40" x 40" Double glazed slide window c/w ½ screen (3) 18" x 32" wall louvres, manually adjustable with screens Eavestroughs, Downspouts and Continuous Ice Rakes	Rev. # 0
	Electrical Components	Rev. # 0
401	Ceiling Mount Building Lighting <b>24 Volt DC</b> 100W, Class 1, Division 2 (2) CROU-EAHC2702 - Conduit Body (2) CROU-EVA2 - Socket (2) CROU-EV264 - Globe (2) CROU-EV505 - Guard (2) CROU-100A19-24 <b>VDC</b> - Bulb (1) CROU-DSDSE12344A30SA 30 min timer	Rev. # 0
	Crouse-Hinds Transfer Switch - Battery box/truck power selector Crouse Hinds DSD926 M90 Class 1 Div 1	Rev #4
	Instrumentation General Notes: - all electrical equipment to be CSA approved - electrical area classification is Cl. 1, Div. II, Gr. D - all tubing to be size-on-size unless otherwise indicated - minimum tubing size is 3/8"	Rev. # 0
	Instrumentation Note: All tubing to be 316SS with 316 Fittings and ferrules. Teflon tape and Jetlube TFE15 to be used, NO SWAK	Rev. # 2
	<b>BALL VALVES</b>	
½" BCN1	Qty 11 Ball Valve, ½" NPT, Carbon Steel c/w regular port, API 602 800 lb rating, std. trim	Rev. # 0
¾" BCN1	Qty 25 Ball Valve, ¾" NPT, Carbon Steel c/w regular port, API 602 800 lb rating, std. trim	Rev. # 0
1" BCN1	Qty 15 Ball Valve, 1" NPT, Carbon Steel c/w regular port, API 602 800 lb rating, std. trim	Rev. # 0
1/2" BCN1,P	Qty 1 Ball Valve, 1/2" NPT, Carbon Steel c/w full port, API 602 800 lb rating, std. trim	Rev. # 1
1½" BCN1	Qty 3 Ball Valve, 1½" NPT, Carbon Steel c/w regular port, API 602 800 lb rating, std. trim	Rev. # 0

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<b>Tag #</b>	<b>Item Description</b>	
2" BCN1	Qty 8 Ball Valve, 2" NPT, Carbon Steel c/w regular port, API 602 800 lb rating, std. trim	Rev. # 0
2" BCN1, L	Qty 1 Ball Valve, 2" NPT, Carbon Steel c/w regular port, API 602 800 lb rating, std. trim, locking handle	Rev. # 0
2" BC31	Qty 2 Ball Valve, 2"-300# ANSI connections, Carbon Steel c/w regular port, std. trim	Rev. # 0
<u>BUTTERFLY VALVES</u>		
4" UI11	Qty 1 Butterfly Valve, Wafer Style 4"-150# ANSI connections, Cast Iron body & trim, elastomer seal c/w lever and notch plate	Rev. # 0
<u>CHECK VALVES</u>		
½" CCN2	Qty 1 Swing Check Valve, c/w ½" NPT connections, Carbon Steel body, Stainless Steel trim, API 800# rating	Rev. # 0
1" CCN2	Qty 1 Swing Check Valve, c/w 1" NPT connections, Carbon Steel body, Stainless Steel trim, API 800# rating	Rev. # 0
1 1/2" CCN2	Qty 1 Swing Check Valve, c/w 1 1/2" NPT connections, Carbon Steel body, Stainless Steel trim, API 800# rating	Rev. # 0
2" CCN2	Qty 5 Swing Check Valve, c/w 2" NPT connections, Carbon Steel body, Stainless Steel trim, API 800# rating	Rev. # 0
2" CC31	Qty 1 Twin Flapper Wafer Check Valve c/w 2"-300# ANSI connections, Carbon Steel body and trim, metal seats, inconel spring, serrated face	Rev. # 0
3" CC31	Qty 1 Twin Flapper Wafer Check Valve c/w 3"-300# ANSI connections, Carbon Steel body and trim, metal seats, inconel spring, serrated face	Rev. # 0
8" CC31	Qty 2 Twin Flapper Wafer Check Valve c/w 8"-300# ANSI connections, Carbon Steel body and trim, metal seats, inconel spring, serrated face	Rev. # 0
10" CC31	Qty 1 Twin Flapper Wafer Check Valve c/w 10"-300# ANSI connections, Carbon Steel body and trim, metal seats, inconel spring, serrated face	Rev. # 0
<u>GATE VALVES</u>		
¾" GCN1	Qty 3 Gate Valve, c/w ¾" NPT connections, regular port, Carbon Steel body and trim, API 602 800# rating	Rev. # 0
1½" GCN1	Qty 2 Gate Valve, c/w 1½" NPT connections, regular port, Carbon Steel body and trim, API 602 800# rating	Rev. # 0
2"GCS1	Qty 2 Gate Valve, 2" SW connections , Carbon Steel Body and Trim c/w regular port, API 602 800 lb rating	Rev. # 0
<u>GLOBE VALVES</u>		
½" LCN1	Qty 3 Globe Valve, c/w ½" NPT connections, Carbon Steel body and trim, API 602 800# rating	Rev. # 0
1" LCN1	Qty 5 Globe Valve, c/w 1" NPT connections, Carbon Steel body and trim, API 602 800# rating	Rev. # 0
2" LCS1	Qty 1 Globe Valve, c/w 2" SW connections, Carbon Steel body and trim, API 602 800# rating	Rev. # 0

**Bill of Materials****BOM****Name:** 11643 Husky 1150HP 355L**Rev. # 4****Location:** Dry Island 13-30-034-22-W4M (DR2)**GM**

<b>Tag #</b>	<b>Item Description</b>	
2" LC31	Qty 1 Globe Valve, c/w 2" 300# ANSI connections, Carbon Steel body and trim, API 602 800# rating	Rev. # 0
	<u>NEEDLE VALVES</u>	
1/4" NCN1	Qty 6 Needle Valve, c/w 1/4" FNPT x 1/4" FNPT connections, carbon steel body and trim, integral seat, Teflon packing, 6,000# WOG rating	Rev. # 0
1/2" NCN1	Qty 26 Needle Valve, c/w 1/2" FNPT x 1/2" FNPT connections, carbon steel body and trim, integral seat, Teflon packing, 6,000# WOG rating	Rev. # 0
3/4" NCM3	Qty 5 Needle Valve, c/w 3/4" MNPT x 1/2" FNPT connections, carbon steel body and trim, integral seat, Teflon packing, 6,000# WOG rating	Rev. # 0
	<u>STRAINERS</u>	
1/2" YCN1	Qty 1 Y strainer, cast steel body, 1/2" NPT, 600# rating, stainless steel mesh, standard 1/16" perforations	Rev. # 0
1" YCN1	Qty 1 Y strainer, cast steel body, 1" NPT, 600# rating, stainless steel mesh, standard 1/16" perforations	Rev. # 0
2" TCS1	Qty 1 Tee strainer, cast steel body, 2" SW connections, certified TO 450 psi rating, stainless steel size 80 mesh	Rev. # 0
2" YCN1	Qty 1 Y strainer, cast steel body, 2" NPT, 600# rating, stainless steel mesh, standard 1/16" perforations	Rev. # 0
14" SC31	Qty 1 Start-up basket strainer, carbon steel, c/w 14"-300# ANSI flange connection, 200% open area, 3/32" perforations.	Rev. # 0