

Save date	2023/11/8
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Comment	
Engine No.	30001z-880308
Boat Type	
Description	

Engine information	
Power	300PS
ECM ID	33920-98J20
Engine Type	4 stroke, 4028cc

SERVICE DATA			
Item	Data	Unit	
ENGINE SPEED	0	r/min	
IGNITION TIMING	BTDC 5	°	
MANIFOLD ABSOLUTE PRESSURE	761	mmHg	
MANIFOLD ABSOLUTE PRESSURE	101.4	kPa	
MANIFOLD ABSOLUTE PRESSURE	29.97	inHg	
BAROMETRIC PRESSURE	761	mmHg	
BAROMETRIC PRESSURE	101.4	kPa	
BAROMETRIC PRESSURE	29.97	inHg	
CYLINDER TEMPERATURE	24	°C	
CYLINDER TEMPERATURE	76	°F	
INTAKE AIR TEMPERATURE	24	°C	
INTAKE AIR TEMPERATURE	75	°F	
BATTERY VOLTAGE	12.45	V	
FUEL INJ. PULSE WIDTH	0	μs	
INJECTED FUEL AMOUNT	0	mcc	
FUEL CONSUMPTION(AVE)	0.0	l/h	
HIGH FUEL PUMP DUTY	0.0	%	
IAC VALVE DUTY	57.5	%	
PURGE VALVE DUTY	0.0	%	
EX-MANI TEMPERATURE (STBD)	24	°C	
EX-MANI TEMPERATURE (STBD)	75	°F	

EX-MANI TEMPERATURE (PORT)	25	°C
EX-MANI TEMPERATURE (PORT)	76	°F
ETV TRGT ANGLE	3.69	°
TPS MAIN	3.28	°
TPS MAIN OUTPUT	0.64	V
TPS SUB	2.87	°
TPS SUB OUTPUT	2.64	V
ESA TRGT POSITION	2.50	V
SHIFT POSITION SNSR OUTPUT	2.52	V
TRIM ANGLE	0	%
TRIM ANGLE SNSR OUTPUT	2.95	V
BOAT SPEED(OVER WATER)	0.0	km/h
BOAT SPEED(OVER WATER)	0.0	KNOT
BOAT SPEED(OVER WATER)	0.0	mph
SPEED SNSR OUTPUT	0.49	V
WATER PRESSURE	94	kPa
WATER PRESSURE	13	psi
WATER PRESSURE SNSR OUTPUT	4.98	V
NO. OF CMP FAILURE(VVT_STBD)	2	times
NO. OF CMP FAILURE(VVT_PORT)	2	times
VVT ADVANCE ANGLE (STBD)	0.0	°
VVT ADVANCE ANGLE (PORT)	0.0	°
NO. OF VVT ADVANCE FAILURE(S)	0	times
NO. OF VVT ADVANCE FAILURE(P)	0	times
NO. OF OCV FAILURE(VVT_STBD)	0	times
NO. OF OCV FAILURE(VVT_PORT)	0	times
NO. OF CHECK CODE WIRE FAILURE	--	times
NO. OF EX TEMP SNSR FAILURE(S)	0	times
NO. OF EX TEMP SNSR FAILURE(P)	0	times
NO. OF SPS FAILURE	0	times
NO. OF TPS FAILURE	0	times
NO. OF TRIM SENSOR FAILURE	0	times
NO. OF SPEED SENSOR FAILURE	0	times

NO. OF NEUTRAL SW FAILURE	46	times
NO. OF INTAKE FAILURE	0	times
NO. OF MAP SENSOR FAILURE	0	times
NO. OF CKP SENSOR FAILURE	12	times
NO. OF IAC VALVE FAILURE	1	times
NO. OF CMP SENSOR FAILURE	1	times
NO. OF CYL. TEMP. SNSR FAILURE	0	times
NO. OF IAT SENSOR FAILURE	2	times
NO. OF FUEL INJECTOR FAILURE	0	times
NO. OF OVER-REVOLUTION	0	times
NO. OF LOW BATTERY VOLTAGE	0	times
NO. OF LOW OIL PRESSURE	1	times
NO. OF OVERHEAT(GRADIENT)	27	times
NO. OF OVERHEAT(TEMP.)	7	times
NO. OF ETV FAILURE(ECM)	0	times
NO. OF ETV FAILURE(MTR)	2	times
NO. OF ETV FAILURE(MOV)	1	times
NO. OF DBW SYSTEM FAILURE	14	times
NO. OF ESA FAILURE(ECM)	0	times
NO. OF ESA FAILURE(MTR)	1	times
NO. OF ESA FAILURE(MOV)	10	times
SYSTEM FORMATION(STA)	1	Station
SYSTEM FORAMTION(ENG)	2	Engine
SYSTEM FORMATION(ENG.POSITION)	Port	
TOTAL OPERATION TIME (HRS.)	1327	h
TOTAL OPERATION TIME (MIN.)	30	min
0-1000 R/MIN	23784	min
1000-2000 R/MIN	9890	min
2000-3000 R/MIN	9972	min
3000-4000 R/MIN	22176	min
4000-5000 R/MIN	13618	min
5000-6000 R/MIN	210	min
ABOVE 6000 R/MIN	0	min

ELAPSE TIME FROM REMINDER CANCEL	10	h
NO. OF OIL CHANGE REMINDER	60	times
CAUTION SYSTEM NAME (1)	Overheat grad.	
ENGINE SPEED (1)	813	r/min
MANIFOLD ABSOLUTE PRESSURE (1)	360	mmHg
MANIFOLD ABSOLUTE PRESSURE (1)	48.0	kPa
MANIFOLD ABSOLUTE PRESSURE (1)	14.18	inHg
CYLINDER TEMPERATURE (1)	102	°C
CYLINDER TEMPERATURE (1)	216	°F
INTAKE AIR TEMPERATURE (1)	51	°C
INTAKE AIR TEMPERATURE (1)	124	°F
EX-MANI TEMPERATURE(STBD) (1)	61	°C
EX-MANI TEMPERATURE(STBD) (1)	142	°F
EX-MANI TEMPERATURE(PORT) (1)	104	°C
EX-MANI TEMPERATURE(PORT) (1)	219	°F
ACCELERATION VOLTAGE (1)	0.61	V
TPS MAIN VOLTAGE (1)	0.61	V
TPS SUB VOLTAGE (1)	2.60	V
SHIFT POSITION (1)	3.87	V
SPS VOLTAGE(1)	3.87	V
BATTERY VOLTAGE (1)	14.65	V
FAILURE TIME (1)	1163	h
FAILURE TIME (1)	32	min
ELAPSE OF TIME (1)	0	min
CAUTION SYSTEM NAME (2)	Overheat grad.	
ENGINE SPEED (2)	4313	r/min
MANIFOLD ABSOLUTE PRESSURE (2)	742	mmHg
MANIFOLD ABSOLUTE PRESSURE (2)	98.9	kPa
MANIFOLD ABSOLUTE PRESSURE (2)	29.24	inHg
CYLINDER TEMPERATURE (2)	102	°C
CYLINDER TEMPERATURE (2)	216	°F
INTAKE AIR TEMPERATURE (2)	46	°C
INTAKE AIR TEMPERATURE (2)	115	°F

EX-MANI TEMPERATURE(STBD) (2)	60	°C
EX-MANI TEMPERATURE(STBD) (2)	139	°F
EX-MANI TEMPERATURE(PORT) (2)	92	°C
EX-MANI TEMPERATURE(PORT) (2)	198	°F
ACCELERATION VOLTAGE (2)	3.18	V
TPS MAIN VOLTAGE (2)	3.18	V
TPS SUB VOLTAGE (2)	4.63	V
SHIFT POSITION (2)	3.87	V
SPS VOLTAGE(2)	3.83	V
BATTERY VOLTAGE (2)	14.36	V
FAILURE TIME (2)	1225	h
FAILURE TIME (2)	46	min
ELAPSE OF TIME (2)	2	min
CAUTION SYSTEM NAME (3)	Overheat grad.	
ENGINE SPEED (3)	656	r/min
MANIFOLD ABSOLUTE PRESSURE (3)	334	mmHg
MANIFOLD ABSOLUTE PRESSURE (3)	44.5	kPa
MANIFOLD ABSOLUTE PRESSURE (3)	13.16	inHg
CYLINDER TEMPERATURE (3)	100	°C
CYLINDER TEMPERATURE (3)	212	°F
INTAKE AIR TEMPERATURE (3)	52	°C
INTAKE AIR TEMPERATURE (3)	125	°F
EX-MANI TEMPERATURE(STBD) (3)	61	°C
EX-MANI TEMPERATURE(STBD) (3)	141	°F
EX-MANI TEMPERATURE(PORT) (3)	98	°C
EX-MANI TEMPERATURE(PORT) (3)	209	°F
ACCELERATION VOLTAGE (3)	0.57	V
TPS MAIN VOLTAGE (3)	0.57	V
TPS SUB VOLTAGE (3)	2.56	V
SHIFT POSITION (3)	3.87	V
SPS VOLTAGE(3)	3.89	V
BATTERY VOLTAGE (3)	14.65	V
FAILURE TIME (3)	1152	h

FAILURE TIME (3)	12	min
ELAPSE OF TIME (3)	0	min
SPC CAUTION SYSTEM NAME (1)-1	DBW FAILURE	
ENGINE SPEED (1)-1	0	r/min
MANIFOLD ABSOLUTE PRESSURE (1)-1	761	mmHg
MANIFOLD ABSOLUTE PRESSURE (1)-1	101.4	kPa
MANIFOLD ABSOLUTE PRESSURE (1)-1	29.97	inHg
CYLINDER TEMPERATURE (1)-1	25	°C
CYLINDER TEMPERATURE (1)-1	77	°F
INTAKE AIR TEMPERATURE (1)-1	35	°C
INTAKE AIR TEMPERATURE (1)-1	95	°F
EX-MANI TEMPERATURE(STBD) (1)-1	25	°C
EX-MANI TEMPERATURE(STBD) (1)-1	77	°F
EX-MANI TEMPERATURE(PORT) (1)-1	25	°C
EX-MANI TEMPERATURE(PORT) (1)-1	78	°F
ACCELERATION VOLTAGE (1)-1	0.64	V
TPS MAIN VOLTAGE (1)-1	0.64	V
TPS SUB VOLTAGE (1)-1	2.64	V
SHIFT POSITION (1)-1	2.50	V
SPS VOLTAGE(1)-1	2.52	V
BATTERY VOLTAGE (1)-1	6.15	V
FAILURE TIME (1)-1	1300	h
FAILURE TIME (1)-1	28	min
SPC CAUTION SYSTEM NAME (1)-2	DBW FAILURE	
ENGINE SPEED (1)-2	0	r/min
MANIFOLD ABSOLUTE PRESSURE (1)-2	761	mmHg
MANIFOLD ABSOLUTE PRESSURE (1)-2	101.4	kPa
MANIFOLD ABSOLUTE PRESSURE (1)-2	29.97	inHg
CYLINDER TEMPERATURE (1)-2	25	°C
CYLINDER TEMPERATURE (1)-2	77	°F
INTAKE AIR TEMPERATURE (1)-2	35	°C
INTAKE AIR TEMPERATURE (1)-2	95	°F
EX-MANI TEMPERATURE(STBD) (1)-2	25	°C

EX-MANI TEMPERATURE(STBD) (1)-2	77	°F
EX-MANI TEMPERATURE(PORT) (1)-2	25	°C
EX-MANI TEMPERATURE(PORT) (1)-2	78	°F
ACCELERATION VOLTAGE (1)-2	0.64	V
TPS MAIN VOLTAGE (1)-2	0.64	V
TPS SUB VOLTAGE (1)-2	2.64	V
SHIFT POSITION (1)-2	2.50	V
SPS VOLTAGE(1)-2	2.52	V
BATTERY VOLTAGE (1)-2	6.08	V
SPC CAUTION SYSTEM NAME (2)-1	ETV FAILURE(MOV)	
ENGINE SPEED (2)-1	0	r/min
MANIFOLD ABSOLUTE PRESSURE (2)-1	761	mmHg
MANIFOLD ABSOLUTE PRESSURE (2)-1	101.4	kPa
MANIFOLD ABSOLUTE PRESSURE (2)-1	29.97	inHg
CYLINDER TEMPERATURE (2)-1	25	°C
CYLINDER TEMPERATURE (2)-1	78	°F
INTAKE AIR TEMPERATURE (2)-1	34	°C
INTAKE AIR TEMPERATURE (2)-1	94	°F
EX-MANI TEMPERATURE(STBD) (2)-1	25	°C
EX-MANI TEMPERATURE(STBD) (2)-1	78	°F
EX-MANI TEMPERATURE(PORT) (2)-1	26	°C
EX-MANI TEMPERATURE(PORT) (2)-1	78	°F
ACCELERATION VOLTAGE (2)-1	0.64	V
TPS MAIN VOLTAGE (2)-1	0.72	V
TPS SUB VOLTAGE (2)-1	2.71	V
SHIFT POSITION (2)-1	2.50	V
SPS VOLTAGE(2)-1	2.52	V
BATTERY VOLTAGE (2)-1	6.08	V
FAILURE TIME (2)-1	1300	h
FAILURE TIME (2)-1	28	min
SPC CAUTION SYSTEM NAME (2)-2	ETV FAILURE(MOV)	
ENGINE SPEED (2)-2	0	r/min
MANIFOLD ABSOLUTE PRESSURE (2)-2	761	mmHg

MANIFOLD ABSOLUTE PRESSURE (2)-2	101.4	kPa
MANIFOLD ABSOLUTE PRESSURE (2)-2	29.97	inHg
CYLINDER TEMPERATURE (2)-2	25	°C
CYLINDER TEMPERATURE (2)-2	78	°F
INTAKE AIR TEMPERATURE (2)-2	34	°C
INTAKE AIR TEMPERATURE (2)-2	94	°F
EX-MANI TEMPERATURE(STBD) (2)-2	25	°C
EX-MANI TEMPERATURE(STBD) (2)-2	78	°F
EX-MANI TEMPERATURE(PORT) (2)-2	26	°C
EX-MANI TEMPERATURE(PORT) (2)-2	78	°F
ACCELERATION VOLTAGE (2)-2	0.64	V
TPS MAIN VOLTAGE (2)-2	0.64	V
TPS SUB VOLTAGE (2)-2	2.64	V
SHIFT POSITION (2)-2	2.50	V
SPS VOLTAGE(2)-2	2.52	V
BATTERY VOLTAGE (2)-2	5.93	V
SPC CAUTION SYSTEM NAME (3)-1	ETV FAILURE(MTR)	
ENGINE SPEED (3)-1	0	r/min
MANIFOLD ABSOLUTE PRESSURE (3)-1	761	mmHg
MANIFOLD ABSOLUTE PRESSURE (3)-1	101.4	kPa
MANIFOLD ABSOLUTE PRESSURE (3)-1	29.97	inHg
CYLINDER TEMPERATURE (3)-1	25	°C
CYLINDER TEMPERATURE (3)-1	78	°F
INTAKE AIR TEMPERATURE (3)-1	33	°C
INTAKE AIR TEMPERATURE (3)-1	92	°F
EX-MANI TEMPERATURE(STBD) (3)-1	25	°C
EX-MANI TEMPERATURE(STBD) (3)-1	78	°F
EX-MANI TEMPERATURE(PORT) (3)-1	26	°C
EX-MANI TEMPERATURE(PORT) (3)-1	78	°F
ACCELERATION VOLTAGE (3)-1	0.64	V
TPS MAIN VOLTAGE (3)-1	1.25	V
TPS SUB VOLTAGE (3)-1	3.24	V
SHIFT POSITION (3)-1	2.50	V

SPS VOLTAGE(3)-1	2.52	V
BATTERY VOLTAGE (3)-1	6.01	V
FAILURE TIME (3)-1	1300	h
FAILURE TIME (3)-1	28	min
SPC CAUTION SYSTEM NAME (3)-2	ETV FAILURE(MTR)	
ENGINE SPEED (3)-2	0	r/min
MANIFOLD ABSOLUTE PRESSURE (3)-2	761	mmHg
MANIFOLD ABSOLUTE PRESSURE (3)-2	101.4	kPa
MANIFOLD ABSOLUTE PRESSURE (3)-2	29.97	inHg
CYLINDER TEMPERATURE (3)-2	25	°C
CYLINDER TEMPERATURE (3)-2	78	°F
INTAKE AIR TEMPERATURE (3)-2	33	°C
INTAKE AIR TEMPERATURE (3)-2	92	°F
EX-MANI TEMPERATURE(STBD) (3)-2	25	°C
EX-MANI TEMPERATURE(STBD) (3)-2	78	°F
EX-MANI TEMPERATURE(PORT) (3)-2	26	°C
EX-MANI TEMPERATURE(PORT) (3)-2	78	°F
ACCELERATION VOLTAGE (3)-2	0.64	V
TPS MAIN VOLTAGE (3)-2	1.25	V
TPS SUB VOLTAGE (3)-2	3.24	V
SHIFT POSITION (3)-2	2.50	V
SPS VOLTAGE(3)-2	2.52	V
BATTERY VOLTAGE (3)-2	6.01	V
EMERGENCY STOP SWITCH	OFF	
CTP SWITCH	ON	
NEUTRAL SWITCH	ON	
VSV (MI)	--	
LOW FUEL PUMP	OFF	
SHIFT POSITION TRGT	NEUTRAL	
SHIFT POSITION	NEUTRAL	

Save date	2023/11/8
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Comment	
Engine No.	30001f-880612
Boat Type	Magnum Cat
Description	

Engine information	
Power	300PS
ECM ID	33920-98J20
Engine Type	4 stroke, 4028cc

SERVICE DATA		
Item	Data	Unit
ENGINE SPEED	0	r/min
IGNITION TIMING	BTDC 5	°
MANIFOLD ABSOLUTE PRESSURE	761	mmHg
MANIFOLD ABSOLUTE PRESSURE	101.4	kPa
MANIFOLD ABSOLUTE PRESSURE	29.97	inHg
BAROMETRIC PRESSURE	761	mmHg
BAROMETRIC PRESSURE	101.4	kPa
BAROMETRIC PRESSURE	29.97	inHg
CYLINDER TEMPERATURE	25	°C
CYLINDER TEMPERATURE	76	°F
INTAKE AIR TEMPERATURE	23	°C
INTAKE AIR TEMPERATURE	74	°F
BATTERY VOLTAGE	12.52	V
FUEL INJ. PULSE WIDTH	0	μs
INJECTED FUEL AMOUNT	0	mcc
FUEL CONSUMPTION(AVE)	0.0	l/h
HIGH FUEL PUMP DUTY	0.0	%
IAC VALVE DUTY	57.5	%
PURGE VALVE DUTY	0.0	%
EX-MANI TEMPERATURE (STBD)	24	°C
EX-MANI TEMPERATURE (STBD)	75	°F

EX-MANI TEMPERATURE (PORT)	24	°C
EX-MANI TEMPERATURE (PORT)	75	°F
ETV TRGT ANGLE	3.69	°
TPS MAIN	3.28	°
TPS MAIN OUTPUT	0.64	V
TPS SUB	2.87	°
TPS SUB OUTPUT	2.64	V
ESA TRGT POSITION	2.50	V
SHIFT POSITION SNSR OUTPUT	2.50	V
TRIM ANGLE	0	%
TRIM ANGLE SNSR OUTPUT	3.01	V
BOAT SPEED(OVER WATER)	0.0	km/h
BOAT SPEED(OVER WATER)	0.0	KNOT
BOAT SPEED(OVER WATER)	0.0	mph
SPEED SNSR OUTPUT	0.47	V
WATER PRESSURE	94	kPa
WATER PRESSURE	13	psi
WATER PRESSURE SNSR OUTPUT	4.98	V
NO. OF CMP FAILURE(VVT_STBD)	11	times
NO. OF CMP FAILURE(VVT_PORT)	5	times
VVT ADVANCE ANGLE (STBD)	0.0	°
VVT ADVANCE ANGLE (PORT)	0.0	°
NO. OF VVT ADVANCE FAILURE(S)	0	times
NO. OF VVT ADVANCE FAILURE(P)	0	times
NO. OF OCV FAILURE(VVT_STBD)	0	times
NO. OF OCV FAILURE(VVT_PORT)	0	times
NO. OF CHECK CODE WIRE FAILURE	--	times
NO. OF EX TEMP SNSR FAILURE(S)	0	times
NO. OF EX TEMP SNSR FAILURE(P)	0	times
NO. OF SPS FAILURE	0	times
NO. OF TPS FAILURE	0	times
NO. OF TRIM SENSOR FAILURE	0	times
NO. OF SPEED SENSOR FAILURE	2	times

NO. OF NEUTRAL SW FAILURE	4	times
NO. OF INTAKE FAILURE	0	times
NO. OF MAP SENSOR FAILURE	0	times
NO. OF CKP SENSOR FAILURE	5	times
NO. OF IAC VALVE FAILURE	0	times
NO. OF CMP SENSOR FAILURE	5	times
NO. OF CYL. TEMP. SNSR FAILURE	0	times
NO. OF IAT SENSOR FAILURE	2	times
NO. OF FUEL INJECTOR FAILURE	0	times
NO. OF OVER-REVOLUTION	2	times
NO. OF LOW BATTERY VOLTAGE	0	times
NO. OF LOW OIL PRESSURE	2	times
NO. OF OVERHEAT(GRADIENT)	1	times
NO. OF OVERHEAT(TEMP.)	0	times
NO. OF ETV FAILURE(ECM)	0	times
NO. OF ETV FAILURE(MTR)	1	times
NO. OF ETV FAILURE(MOV)	1	times
NO. OF DBW SYSTEM FAILURE	10	times
NO. OF ESA FAILURE(ECM)	0	times
NO. OF ESA FAILURE(MTR)	22	times
NO. OF ESA FAILURE(MOV)	8	times
SYSTEM FORMATION(STA)	1	Station
SYSTEM FORAMTION(ENG)	2	Engine
SYSTEM FORMATION(ENG.POSITION)	Stbd	
TOTAL OPERATION TIME (HRS.)	1324	h
TOTAL OPERATION TIME (MIN.)	54	min
0-1000 R/MIN	23764	min
1000-2000 R/MIN	10070	min
2000-3000 R/MIN	9676	min
3000-4000 R/MIN	22410	min
4000-5000 R/MIN	13370	min
5000-6000 R/MIN	204	min
ABOVE 6000 R/MIN	0	min

ELAPSE TIME FROM REMINDER CANCEL	5	h
NO. OF OIL CHANGE REMINDER	60	times
CAUTION SYSTEM NAME (1)	Overheat grad.	
ENGINE SPEED (1)	2125	r/min
MANIFOLD ABSOLUTE PRESSURE (1)	301	mmHg
MANIFOLD ABSOLUTE PRESSURE (1)	40.1	kPa
MANIFOLD ABSOLUTE PRESSURE (1)	11.84	inHg
CYLINDER TEMPERATURE (1)	81	°C
CYLINDER TEMPERATURE (1)	178	°F
INTAKE AIR TEMPERATURE (1)	29	°C
INTAKE AIR TEMPERATURE (1)	84	°F
EX-MANI TEMPERATURE(STBD) (1)	81	°C
EX-MANI TEMPERATURE(STBD) (1)	178	°F
EX-MANI TEMPERATURE(PORT) (1)	98	°C
EX-MANI TEMPERATURE(PORT) (1)	209	°F
ACCELERATION VOLTAGE (1)	1.02	V
TPS MAIN VOLTAGE (1)	1.02	V
TPS SUB VOLTAGE (1)	3.03	V
SHIFT POSITION (1)	2.50	V
SPS VOLTAGE(1)	2.46	V
BATTERY VOLTAGE (1)	14.36	V
FAILURE TIME (1)	0	h
FAILURE TIME (1)	2	min
ELAPSE OF TIME (1)	0	min
CAUTION SYSTEM NAME (2)	Low oil press	
ENGINE SPEED (2)	313	r/min
MANIFOLD ABSOLUTE PRESSURE (2)	690	mmHg
MANIFOLD ABSOLUTE PRESSURE (2)	92.0	kPa
MANIFOLD ABSOLUTE PRESSURE (2)	27.20	inHg
CYLINDER TEMPERATURE (2)	31	°C
CYLINDER TEMPERATURE (2)	87	°F
INTAKE AIR TEMPERATURE (2)	30	°C
INTAKE AIR TEMPERATURE (2)	86	°F

EX-MANI TEMPERATURE(STBD) (2)	38	°C
EX-MANI TEMPERATURE(STBD) (2)	100	°F
EX-MANI TEMPERATURE(PORT) (2)	29	°C
EX-MANI TEMPERATURE(PORT) (2)	83	°F
ACCELERATION VOLTAGE (2)	0.82	V
TPS MAIN VOLTAGE (2)	0.82	V
TPS SUB VOLTAGE (2)	2.81	V
SHIFT POSITION (2)	2.50	V
SPS VOLTAGE(2)	2.48	V
BATTERY VOLTAGE (2)	12.67	V
FAILURE TIME (2)	1220	h
FAILURE TIME (2)	10	min
ELAPSE OF TIME (2)	0	min
CAUTION SYSTEM NAME (3)	Low oil press	
ENGINE SPEED (3)	688	r/min
MANIFOLD ABSOLUTE PRESSURE (3)	323	mmHg
MANIFOLD ABSOLUTE PRESSURE (3)	43.0	kPa
MANIFOLD ABSOLUTE PRESSURE (3)	12.72	inHg
CYLINDER TEMPERATURE (3)	49	°C
CYLINDER TEMPERATURE (3)	119	°F
INTAKE AIR TEMPERATURE (3)	47	°C
INTAKE AIR TEMPERATURE (3)	117	°F
EX-MANI TEMPERATURE(STBD) (3)	48	°C
EX-MANI TEMPERATURE(STBD) (3)	118	°F
EX-MANI TEMPERATURE(PORT) (3)	47	°C
EX-MANI TEMPERATURE(PORT) (3)	117	°F
ACCELERATION VOLTAGE (3)	0.57	V
TPS MAIN VOLTAGE (3)	0.59	V
TPS SUB VOLTAGE (3)	2.58	V
SHIFT POSITION (3)	2.50	V
SPS VOLTAGE(3)	2.52	V
BATTERY VOLTAGE (3)	12.74	V
FAILURE TIME (3)	1249	h

FAILURE TIME (3)	50	min
ELAPSE OF TIME (3)	0	min
SPC CAUTION SYSTEM NAME (1)-1	DBW FAILURE	
ENGINE SPEED (1)-1	0	r/min
MANIFOLD ABSOLUTE PRESSURE (1)-1	761	mmHg
MANIFOLD ABSOLUTE PRESSURE (1)-1	101.4	kPa
MANIFOLD ABSOLUTE PRESSURE (1)-1	29.97	inHg
CYLINDER TEMPERATURE (1)-1	25	°C
CYLINDER TEMPERATURE (1)-1	77	°F
INTAKE AIR TEMPERATURE (1)-1	31	°C
INTAKE AIR TEMPERATURE (1)-1	88	°F
EX-MANI TEMPERATURE(STBD) (1)-1	25	°C
EX-MANI TEMPERATURE(STBD) (1)-1	76	°F
EX-MANI TEMPERATURE(PORT) (1)-1	25	°C
EX-MANI TEMPERATURE(PORT) (1)-1	76	°F
ACCELERATION VOLTAGE (1)-1	0.64	V
TPS MAIN VOLTAGE (1)-1	0.64	V
TPS SUB VOLTAGE (1)-1	2.64	V
SHIFT POSITION (1)-1	2.50	V
SPS VOLTAGE(1)-1	2.52	V
BATTERY VOLTAGE (1)-1	6.08	V
FAILURE TIME (1)-1	1304	h
FAILURE TIME (1)-1	4	min
SPC CAUTION SYSTEM NAME (1)-2	DBW FAILURE	
ENGINE SPEED (1)-2	0	r/min
MANIFOLD ABSOLUTE PRESSURE (1)-2	761	mmHg
MANIFOLD ABSOLUTE PRESSURE (1)-2	101.4	kPa
MANIFOLD ABSOLUTE PRESSURE (1)-2	29.97	inHg
CYLINDER TEMPERATURE (1)-2	25	°C
CYLINDER TEMPERATURE (1)-2	77	°F
INTAKE AIR TEMPERATURE (1)-2	31	°C
INTAKE AIR TEMPERATURE (1)-2	88	°F
EX-MANI TEMPERATURE(STBD) (1)-2	25	°C

EX-MANI TEMPERATURE(STBD) (1)-2	76	°F
EX-MANI TEMPERATURE(PORT) (1)-2	25	°C
EX-MANI TEMPERATURE(PORT) (1)-2	76	°F
ACCELERATION VOLTAGE (1)-2	0.64	V
TPS MAIN VOLTAGE (1)-2	0.64	V
TPS SUB VOLTAGE (1)-2	2.64	V
SHIFT POSITION (1)-2	2.50	V
SPS VOLTAGE(1)-2	2.52	V
BATTERY VOLTAGE (1)-2	6.01	V
SPC CAUTION SYSTEM NAME (2)-1	ETV FAILURE(MOV)	
ENGINE SPEED (2)-1	0	r/min
MANIFOLD ABSOLUTE PRESSURE (2)-1	761	mmHg
MANIFOLD ABSOLUTE PRESSURE (2)-1	101.4	kPa
MANIFOLD ABSOLUTE PRESSURE (2)-1	29.97	inHg
CYLINDER TEMPERATURE (2)-1	25	°C
CYLINDER TEMPERATURE (2)-1	77	°F
INTAKE AIR TEMPERATURE (2)-1	31	°C
INTAKE AIR TEMPERATURE (2)-1	88	°F
EX-MANI TEMPERATURE(STBD) (2)-1	25	°C
EX-MANI TEMPERATURE(STBD) (2)-1	76	°F
EX-MANI TEMPERATURE(PORT) (2)-1	25	°C
EX-MANI TEMPERATURE(PORT) (2)-1	76	°F
ACCELERATION VOLTAGE (2)-1	0.64	V
TPS MAIN VOLTAGE (2)-1	0.70	V
TPS SUB VOLTAGE (2)-1	2.70	V
SHIFT POSITION (2)-1	2.50	V
SPS VOLTAGE(2)-1	2.52	V
BATTERY VOLTAGE (2)-1	6.08	V
FAILURE TIME (2)-1	1304	h
FAILURE TIME (2)-1	4	min
SPC CAUTION SYSTEM NAME (2)-2	ETV FAILURE(MOV)	
ENGINE SPEED (2)-2	0	r/min
MANIFOLD ABSOLUTE PRESSURE (2)-2	761	mmHg

MANIFOLD ABSOLUTE PRESSURE (2)-2	101.4	kPa
MANIFOLD ABSOLUTE PRESSURE (2)-2	29.97	inHg
CYLINDER TEMPERATURE (2)-2	25	°C
CYLINDER TEMPERATURE (2)-2	77	°F
INTAKE AIR TEMPERATURE (2)-2	31	°C
INTAKE AIR TEMPERATURE (2)-2	88	°F
EX-MANI TEMPERATURE(STBD) (2)-2	25	°C
EX-MANI TEMPERATURE(STBD) (2)-2	76	°F
EX-MANI TEMPERATURE(PORT) (2)-2	25	°C
EX-MANI TEMPERATURE(PORT) (2)-2	76	°F
ACCELERATION VOLTAGE (2)-2	0.64	V
TPS MAIN VOLTAGE (2)-2	0.64	V
TPS SUB VOLTAGE (2)-2	2.64	V
SHIFT POSITION (2)-2	2.50	V
SPS VOLTAGE(2)-2	2.52	V
BATTERY VOLTAGE (2)-2	6.08	V
SPC CAUTION SYSTEM NAME (3)-1	ETV FAILURE(MTR)	
ENGINE SPEED (3)-1	0	r/min
MANIFOLD ABSOLUTE PRESSURE (3)-1	761	mmHg
MANIFOLD ABSOLUTE PRESSURE (3)-1	101.4	kPa
MANIFOLD ABSOLUTE PRESSURE (3)-1	29.97	inHg
CYLINDER TEMPERATURE (3)-1	25	°C
CYLINDER TEMPERATURE (3)-1	77	°F
INTAKE AIR TEMPERATURE (3)-1	30	°C
INTAKE AIR TEMPERATURE (3)-1	87	°F
EX-MANI TEMPERATURE(STBD) (3)-1	25	°C
EX-MANI TEMPERATURE(STBD) (3)-1	76	°F
EX-MANI TEMPERATURE(PORT) (3)-1	25	°C
EX-MANI TEMPERATURE(PORT) (3)-1	76	°F
ACCELERATION VOLTAGE (3)-1	0.64	V
TPS MAIN VOLTAGE (3)-1	1.27	V
TPS SUB VOLTAGE (3)-1	3.26	V
SHIFT POSITION (3)-1	2.50	V

SPS VOLTAGE(3)-1	2.52	V
BATTERY VOLTAGE (3)-1	6.01	V
FAILURE TIME (3)-1	1304	h
FAILURE TIME (3)-1	4	min
SPC CAUTION SYSTEM NAME (3)-2	ETV FAILURE(MTR)	
ENGINE SPEED (3)-2	0	r/min
MANIFOLD ABSOLUTE PRESSURE (3)-2	761	mmHg
MANIFOLD ABSOLUTE PRESSURE (3)-2	101.4	kPa
MANIFOLD ABSOLUTE PRESSURE (3)-2	29.97	inHg
CYLINDER TEMPERATURE (3)-2	25	°C
CYLINDER TEMPERATURE (3)-2	77	°F
INTAKE AIR TEMPERATURE (3)-2	30	°C
INTAKE AIR TEMPERATURE (3)-2	87	°F
EX-MANI TEMPERATURE(STBD) (3)-2	25	°C
EX-MANI TEMPERATURE(STBD) (3)-2	76	°F
EX-MANI TEMPERATURE(PORT) (3)-2	25	°C
EX-MANI TEMPERATURE(PORT) (3)-2	76	°F
ACCELERATION VOLTAGE (3)-2	0.64	V
TPS MAIN VOLTAGE (3)-2	1.27	V
TPS SUB VOLTAGE (3)-2	3.26	V
SHIFT POSITION (3)-2	2.50	V
SPS VOLTAGE(3)-2	2.52	V
BATTERY VOLTAGE (3)-2	5.93	V
EMERGENCY STOP SWITCH	OFF	
CTP SWITCH	ON	
NEUTRAL SWITCH	ON	
VSV (MI)	--	
LOW FUEL PUMP	OFF	
SHIFT POSITION TRGT	NEUTRAL	
SHIFT POSITION	NEUTRAL	