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24/09/2021

Engine No.	14003F-311727
Boat Type	Powercat
Description	Michael Con prt 21
Engine information	
Power	140PS
ECM ID	33920-92JE1
Engine Type	4 stroke 2045cc

SERVICE DATA

Item	Data	Unit
ENGINE SPEED	0	rpm
IGNITION TIMING	BTDC 5	°
MANIFOLD ABSOLUTE PRESSURE	768	mmHg
MANIFOLD ABSOLUTE PRESSURE	102.4	kPa
MANIFOLD ABSOLUTE PRESSURE	30.12	inHg
BAROMETRIC PRESSURE	761	mmHg
BAROMETRIC PRESSURE	101.4	kPa
BAROMETRIC PRESSURE	29.97	inHg
CYLINDER TEMPERATURE	30	°C
CYLINDER TEMPERATURE	86	°F
INTAKE AIR TEMPERATURE	31	°C
INTAKE AIR TEMPERATURE	88	°F
BATTERY VOLTAGE	12.08	V
FUEL INJ. PULSE WIDTH	0	us
INJECTED FUEL AMOUNT	0	mcc
HIGH FUEL PUMP DUTY	0	%
IAC VALVE DUTY	0	%
EX-MANI TEMPERATURE	30	°C
EX-MANI TEMPERATURE	86	°F
THROTTLE POSITION ANGLE	0	°
THROTTLE POSITION SNSR OUTPUT	0.68	V
TRIM ANGLE	92	%
TRIM ANGLE SNSR OUTPUT	2.93	V
TILT LIMIT VOLTAGE	4.51	V
TILT LIMIT VOLTAGE(DOWN)	2.25	V
EMERGENCY STOP SWITCH	OFF	
CTP SWITCH	ON	
NEUTRAL SWITCH	ON	
PTT SW UP	OFF	
PTT SW DN	OFF	
WATER DETECTION SW	OFF	
START SW	OFF	
NO. OF EX TEMP SNSR FAILURE	0	times
NO. OF TP SENSOR FAILURE	0	times
NO. OF TRIM SENSOR FAILURE	0	times
NO. OF O2 SENSOR FAILURE	5	times
NO. OF O2 SENSOR HEATER FAILURE	1	times
NO. OF KNOCK SENSOR FAILURE	0	times
NO. OF INTAKE FAILURE	0	times
NO. OF MAP SENSOR FAILURE	0	times
NO. OF CKP SENSOR FAILURE	0	times
NO. OF CMP SENSOR FAILURE	0	times
NO. OF CYL. TEMP. SNSR FAILURE	0	times
NO. OF IAT SENSOR FAILURE	0	times
NO. OF FUEL INJECTOR FAILURE	0	times

NO. OF OIL PRESSURE SW FAILURE	0 times
NO. OF OVER-REVOLUTION	0 times
NO. OF LOW BATTERY VOLTAGE	0 times
NO. OF LOW OIL PRESSURE	0 times
NO. OF OVERHEAT(GRADIENT)	0 times
NO. OF OVERHEAT(TEMP.)	0 times
NO. OF WATER IN FUEL	0 times
TOTAL OPERATION TIME (HRS.)	411 h
TOTAL OPERATION TIME (MIN.)	24 min
0-1000 RPM	4832 min
1000-2000 RPM	2142 min
2000-3000 RPM	342 min
3000-4000 RPM	2446 min
4000-5000 RPM	13830 min
5000-6000 RPM	1092 min
ABOVE 6000 RPM	0 min
ELAPSE TIME FROM REMINDER CANCEL	0 h
NO. OF OIL CHANGE REMINDER	9 times
IDLING OP. TIME	3502 min
NO. OF SHIFT F	3084 times
NO. OF START-WOT TIME(0-1 MIN)	0 times
NO. OF START-WOT TIME(1-5 MIN)	0 times
NO. OF START-WOT TIME(5-10 MIN)	0 times
NO. OF ST-WOT TIME(ABOVE 10 MIN)	0 times
NO. OF STARTING(FOLLOWING -10°C)	0 times
NO. OF STARTING( -10-0 °C)	0 times
NO. OF STARTING( 0-10 °C)	0 times
NO. OF STARTING( 10-20 °C)	7 times
NO. OF STARTING( 20-30 °C)	331 times
NO. OF STARTING( 30-60 °C)	390 times
NO. OF STARTING(ABOVE 60 °C)	247 times
THE LOWEST BAROMETRIC PRESSURE	649 mmHg
THE LOWEST BAROMETRIC PRESSURE	86.5 kPa
THE LOWEST BAROMETRIC PRESSURE	25.56 inHg
THE HIGHEST BAROMETRIC PRESSURE	760 mmHg
THE HIGHEST BAROMETRIC PRESSURE	101.4 kPa
THE HIGHEST BAROMETRIC PRESSURE	29.94 inHg
THE LOWEST INTAKE AIR TEMP.	17 °C
THE LOWEST INTAKE AIR TEMP.	63 °F
THE HIGHEST INTAKE AIR TEMP.	60 °C
THE HIGHEST INTAKE AIR TEMP.	140 °F
THE HIGHEST AIR TEMP. (HOT)	63 °C
THE HIGHEST AIR TEMP. (HOT)	145 °F
THE HIGHEST CYLINDER TEMP. (HOT)	78 °C
THE HIGHEST CYLINDER TEMP. (HOT)	172 °F

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Engine information

Engine No.	14003Z-310122
Boat Type	Powercat
Description	Michael Con stb 21
Power	140PS
ECM ID	33920-92JE1

SERVICE DATA		Engine Type	4 stroke 2045cc
Item	Data	Unit	
ENGINE SPEED	0	rpm	
IGNITION TIMING	BTDC 5	°	
MANIFOLD ABSOLUTE PRESSURE	764	mmHg	
MANIFOLD ABSOLUTE PRESSURE	101.9	kPa	
MANIFOLD ABSOLUTE PRESSURE	30.12	inHg	
BAROMETRIC PRESSURE	761	mmHg	
BAROMETRIC PRESSURE	101.4	kPa	
BAROMETRIC PRESSURE	29.97	inHg	
CYLINDER TEMPERATURE	27	°C	
CYLINDER TEMPERATURE	81	°F	
INTAKE AIR TEMPERATURE	28	°C	
INTAKE AIR TEMPERATURE	82	°F	
BATTERY VOLTAGE	12.08	V	
FUEL INJ. PULSE WIDTH	0	us	
INJECTED FUEL AMOUNT	0	mcc	
HIGH FUEL PUMP DUTY	0	%	
IAC VALVE DUTY	0	%	
EX-MANI TEMPERATURE	28	°C	
EX-MANI TEMPERATURE	82	°F	
THROTTLE POSITION ANGLE	0	°	
THROTTLE POSITION SNSR OUTPUT	0.68	V	
TRIM ANGLE	89	%	
TRIM ANGLE SNSR OUTPUT	2.87	V	
TILT LIMIT VOLTAGE	4.55	V	
TILT LIMIT VOLTAGE(DOWN)	2.21	V	
EMERGENCY STOP SWITCH	OFF		
CTP SWITCH	ON		
NEUTRAL SWITCH	ON		
PTT SW UP	OFF		
PTT SW DN	OFF		
WATER DETECTION SW	OFF		
START SW	OFF		
NO. OF EX TEMP SNSR FAILURE	0	times	
NO. OF TP SENSOR FAILURE	0	times	
NO. OF TRIM SENSOR FAILURE	0	times	
NO. OF O2 SENSOR FAILURE	0	times	
NO. OF O2 SENSOR HEATER FAILURE	0	times	
NO. OF KNOCK SENSOR FAILURE	0	times	
NO. OF INTAKE FAILURE	0	times	
NO. OF MAP SENSOR FAILURE	0	times	
NO. OF CKP SENSOR FAILURE	0	times	
NO. OF CMP SENSOR FAILURE	0	times	
NO. OF CYL. TEMP. SNSR FAILURE	0	times	
NO. OF IAT SENSOR FAILURE	0	times	
NO. OF FUEL INJECTOR FAILURE	0	times	
NO. OF OIL PRESSURE SW FAILURE	0	times	
NO. OF OVER-REVOLUTION	1	times	
NO. OF LOW BATTERY VOLTAGE	0	times	
NO. OF LOW OIL PRESSURE	0	times	
NO. OF OVERHEAT(GRADIENT)	0	times	
NO. OF OVERHEAT(TEMP.)	1	times	
NO. OF WATER IN FUEL	1	times	
TOTAL OPERATION TIME (HRS.)	431	h	

TOTAL OPERATION TIME (MIN.)	30 min
0-1000 RPM	4144 min
1000-2000 RPM	3014 min
2000-3000 RPM	464 min
3000-4000 RPM	2274 min
4000-5000 RPM	14684 min
5000-6000 RPM	1310 min
ABOVE 6000 RPM	0 min
ELAPSE TIME FROM REMINDER CANCEL	1 h
NO. OF OIL CHANGE REMINDER	14 times
IDLING OP. TIME	2506 min
NO. OF SHIFT F	3427 times
NO. OF START-WOT TIME(0-1 MIN)	0 times
NO. OF START-WOT TIME(1-5 MIN)	0 times
NO. OF START-WOT TIME(5-10 MIN)	0 times
NO. OF ST-WOT TIME(ABOVE 10 MIN)	0 times
NO. OF STARTING(FOLLOWING -10°C)	0 times
NO. OF STARTING( -10-0 °C)	0 times
NO. OF STARTING( 0-10 °C)	0 times
NO. OF STARTING( 10-20 °C)	7 times
NO. OF STARTING( 20-30 °C)	286 times
NO. OF STARTING( 30-60 °C)	331 times
NO. OF STARTING(ABOVE 60 °C)	242 times
THE LOWEST BAROMETRIC PRESSURE	716 mmHg
THE LOWEST BAROMETRIC PRESSURE	95.4 kPa
THE LOWEST BAROMETRIC PRESSURE	28.18 inHg
THE HIGHEST BAROMETRIC PRESSURE	760 mmHg
THE HIGHEST BAROMETRIC PRESSURE	101.4 kPa
THE HIGHEST BAROMETRIC PRESSURE	29.94 inHg
THE LOWEST INTAKE AIR TEMP.	17 °C
THE LOWEST INTAKE AIR TEMP.	63 °F
THE HIGHEST INTAKE AIR TEMP.	58 °C
THE HIGHEST INTAKE AIR TEMP.	136 °F
THE HIGHEST AIR TEMP. (HOT)	55 °C
THE HIGHEST AIR TEMP. (HOT)	131 °F
THE HIGHEST CYLINDER TEMP. (HOT)	75 °C
THE HIGHEST CYLINDER TEMP. (HOT)	167 °F