

WesTrac



FORM, TOOL, TEMPLATE

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| Document Owner | Area Manager | | | |

ENGINE DYNAMOMETER TEST REPORT

| | | | | | |
|----------------|---------|------------|-----------------------|---------|------------|
| JOB No: | PG14046 | CUSTOMER: | ROTTNEST FAST FERRIES | DATE: | 01/02/2021 |
| MACHINE MODEL: | MARINE | SERIAL No: | - | ARR No: | - |
| ENGINE MODEL: | C-32 | SERIAL No: | RXB03806 | ARR No: | - |

FINAL INSPECTION

| | | | | | |
|---------------|------------|--|----------|---------------------|------------------|
| FLASH FILE #: | 2557342-00 | ECM SERIAL NUMBER: | RXB03806 | TESTS REG: | OK-5329 |
| ECM HOURS: | 2969 | BLOCK SERIAL NUMBER: | 80M00219 | TESTED BY: | M. Williams E893 |
| TOTAL FUEL: | 649906 | LEAD HAND SIGN OFF SERIAL NUMBERS MATCH: | | LEAD HAND SIGN OFF: | |

| | | | | | | | |
|-------------------------|-----------------|-----------------|------|---------------------------|------|-------------------------------|------|
| OIL LEAKS: | NIL | WATER LEAKS: | NIL | STARTER: | NIL | VALVE SET: | E893 |
| FUEL LEAKS: | NIL | EXHAUST LEAKS: | NIL | SOS: | PASS | FUEL SETTING: | 8/0 |
| REGULATOR: | NIL | GOVERNOR/ECM: | PASS | AIR/FUEL RATIO: | STD | TURBO CLAMPS CHECKED: | E893 |
| DYNO STICKER SUBMITTED: | DONE | INJECTOR CODES: | N/A | ROCKER HOLD DOWN TORQUED: | N/A | BRIDGES POSITIONED CORRECTLY: | E893 |
| OIL ORDERED: | FILLED FROM POD | FUEL ORDERED: | YES | PARTS ORDERED: | YES | EMPLOYEE NUMBER: | E893 |

NOTES:

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| | |
|-------------------------|-------------|
| JOB No: | PG14046 |
| HIGH IDLE RPM: | 2410 |
| LOW IDLE RPM: | 700 |
| FULL LOAD RPM: | 2300 |
| STABILISATION RPM: | - |
| SET POINT/BAL RPM: | - |
| TORQUE CHECK RPM: | 1600 |
| FUEL LOAD BHP: | 1400 +/-3% |
| TORQUE @ STAB RPM FT/LB | - |
| TORQUE @ 75% RPM FT/LB | 4383 +/- 3% |
| FUEL KPA @ FULL LOAD | 300-600 |
| JACKET WATER TEMP RISE | 7C |
| OIL KPA @ F/LOAD: | 215-600 |
| OIL TEMP @ F/LOAD: | 115C |
| OIL KPA @ LOW IDLE | 100-450 |
| AIR INLET TEMP: | 29 |
| BOOST KPA: | 204-276 |
| INLET MAIN TEMP: | - |
| EXH STACK TEMP: | 590C |
| FUEL RATE: | 264-292 |
| FUEL SETTINGS: | -58/47 |
| AIR/FUEL SETTINGS: | STD |

| | | | | | | | |
|--------------------|------|------------|-------|------------|-------|------------|-------|
| FUEL API: | 38.1 | CORRECTED: | 1.013 | BAROMETER: | - | CORRECTED: | - |
| MANIFOLD AIR TEMP: | - | CORRECTED: | - | FUEL TEMP: | 31 | CORRECTED: | 1.005 |
| | | | | TOTAL: | 1.018 | | |

| WARM UP STAGE | ENG RPM | BHP | FUEL KPA | FUEL TEMP | OIL KPA | MANIFOLD PRESS | JACKET WATER TEMP | | | AC WATER TEMP | INLET MAIN AIR TEMP | | | EXHAUST TEMP | FUEL RATE | CORRECTED BHP OR TORQUE |
|----------------------------------|---------|------|----------|-----------|---------|----------------|-------------------|-----|---|---------------|---------------------|---|-----|--------------|-----------|-------------------------|
| | | | | | | | IN | OUT | | | L | R | L | | | |
| LOW IDLE (10) MIN | 700 | 0 | 395 | 31 | 430 | 0 | 51 | 52 | - | - | 33 | - | 74 | 82 | - | - |
| PART LOAD 1/4 HP 7% RPM (15 MIN) | 1800 | 716 | 438 | 30 | 430 | 66 | 79 | 85 | - | - | 53 | - | 342 | 378 | 136 | - |
| FULL LOAD (30) MIN | 2300 | 1306 | 416 | 33 | 405 | 195 | 84 | 90 | - | - | 60 | - | 386 | 418 | 269 | - |

FINAL PERFORMANCE CHECK

| | | | | | | | | | | | | | | | | |
|------------------|------|------|--------|----|-----|-----|----|----|---|---|----|---|-----|-----|-----|------|
| STABILISATION | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| FULL LOAD RPM | 2300 | 1380 | 400 | 31 | 402 | 209 | 84 | 91 | - | - | 71 | - | 394 | 426 | 289 | 1404 |
| TORQUE CHECK RPM | 1600 | 4248 | TORQUE | | | | | | | | | | | | | 4325 |
| HIGH IDLE | 2410 | | | | 454 | 100 | | | | | | | | | | |
| LOW IDLE | 700 | | | | 181 | 93 | | | | | | | | | | |

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Cat Electronic Technician 2020A v1.0 Product Status Report

1/02/2021 11:02 PM

Product Status Report

| Parameter | Value |
|----------------------|------------|
| Engine Serial Number | RXB03806 |
| Equipment ID | RXB03806 |
| Comments | After Dyno |

C32 Marine Starboard (RXB03806)

| Parameter | Value |
|---------------------------------|------------|
| Equipment ID | RXB03806 |
| Engine Serial Number | RXB03806 |
| ECM Serial Number | 3197B038KS |
| Personality Module Part Number | 2557342-00 |
| Personality Module Release Date | Apr04 |
| Personality Module Description | C32-3412 |

Logged Diagnostic Codes [Diagnostic Clock = 0 hours] - C32 Marine Starboard (RXB03806)

| Code | Description | Occ. | First | Last |
|----------------------------|-------------|------|-------|------|
| No Logged Diagnostic Codes | | | | |

Logged Event Codes [Diagnostic Clock = 0 hours] - C32 Marine Starboard (RXB03806)

| Code | Description | Occ. | First | Last |
|-----------------------|-------------|------|-------|------|
| No Logged Event Codes | | | | |

Active Diagnostic Codes - C32 Marine Starboard (RXB03806)

| Code | Description |
|------|-------------|
| | |

| | |
|--------|---|
| 91- 8 | Throttle Position Sensor : Abnormal Frequency, Pulse Width, or Period |
| 127- 3 | Transmission Oil Pressure Sensor : Voltage Above Normal |
| 177- 3 | Transmission Oil Temperature Sensor : Voltage Above Normal |

Current Totals - C32 Marine Starboard (RXB03806)

| Description | Value | Unit |
|---------------------|-------|-------|
| Total Time | 0 | hours |
| Total Idle Time | 0:00 | hours |
| Total Fuel | 0 | L |
| Total Idle Fuel | 0 | L |
| Total Max Fuel | 0 | L |
| Average Load Factor | 0 | % |

Configuration - C32 Marine Starboard (RXB03806)

| Description | Value | Unit |
|---|----------------------|-------|
| Equipment ID | RXB03806 | |
| Engine Serial Number | RXB03806 | |
| ECM Serial Number | 3197B038KS | |
| Personality Module Part Number | 2557342-00 | |
| Personality Module Release Date | Apr04 | |
| Personality Module Description | C32 3412 | |
| Rating Number | 1 | |
| Rated Power | 1044 kW at 2300 rpm | |
| Rated Peak Torque | 6233 N-m at 1600 rpm | |
| Top Engine Speed Range | 2410 - 2410 rpm | |
| Test Spec | 0K5329 | |
| Rated Engine Speed | 2300rpm | |
| Engine Location | Starboard | |
| Fuel To Air Ratio Mode | Level 2 | |
| Low Idle Speed | 700 | rpm |
| Maximum Trolling Engine Speed | 900 | rpm |
| Transmission Oil Temperature High Set Point | 95 | Deg C |
| Transmission Oil Pressure High Set Point | 2669 | kPa |
| Transmission Oil Temperature Sensor | Installed | |
| Transmission Oil Pressure Sensor | Installed | |
| Fuel Correction Factor | 0 | % |
| Engine Monitoring Mode | Warning | |
| Coolant Level Sensor | Installed | |
| Maintenance Indicator Mode | Off | |

| | | |
|----------------------|-----------------|---|
| PM1 Interval | 19078 | L |
| Engine Oil Capacity | 52.0 | L |
| FLS | 8 | |
| FTS | 0 | |
| Customer Password #1 | ***** | |
| Customer Password #2 | ***** | |
| Total Tattletale | 61 | |
| 6 Cylinder Cutout | Off | |
| Prog Eng Out Conf | MAINTENANCE LMP | |

Injector Codes Calibration - C32 Marine Starboard (RXB03806)

| Injector | Code |
|-------------|-------------|
| Injector 1 | Unavailable |
| Injector 2 | Unavailable |
| Injector 3 | Unavailable |
| Injector 4 | Unavailable |
| Injector 5 | Unavailable |
| Injector 6 | Unavailable |
| Injector 7 | Unavailable |
| Injector 8 | Unavailable |
| Injector 9 | Unavailable |
| Injector 10 | Unavailable |
| Injector 11 | Unavailable |
| Injector 12 | Unavailable |

Trip Segment - C32 Marine Starboard (RXB03806)

| Description | Value | Unit |
|-------------------------------|--------------|-------|
| Time | Invalid Data | hours |
| Fuel | Invalid Data | L |
| Idle Time | Invalid Data | hours |
| Idle Fuel | Invalid Data | L |
| % Idle Time | Unavailable | hours |
| Total Fuel / Total Rated Fuel | Unavailable | % |
| Start Time | 2594:15 | hours |
| End Time | 0:00 | hours |

Maintenance Indicator - C32 Marine Starboard (RXB03806)

| Description | Service Status | Value | Unit |
|-------------|----------------|-------|------|
| | | | |

| | | | |
|--------------------|-----|-------------|--|
| PM1 | --- | Unavailable | |
| PM2 | --- | Unavailable | |
| Coolant Flush/Fill | --- | Unavailable | |

Throttle Configuration - C32 Marine Starboard (RXB03806)

| Parameter | Value |
|--------------------|-------|
| Arbitration Method | |