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|--------------------------|--|---|--|
| <b>TYPE</b>              | : PUSHER HARBOUR TUG<br>(Towing, mooring, escorting and fire-fighting operations)  | <b>AUXILIARY EQUIPMENT</b>                  | General sets<br>2 x Caterpillar C4.4 TA, 400V 107 kVA, 50 Hz or 440 V, 123 kVA, 60 Hz  |
| <b>YEAR BUILT</b>        | : 2018   | General Service pumps                       | 2 x Azcue CA 50/3A 20m <sup>3</sup> /h at 2.35 bar   |
| <b>PORT OF REGISTRY</b>  | : Port Kelang, Malaysia.   | Bilge pump                                  | Azcue CA 32/05 3.6m <sup>3</sup> at 1.1 bar  |
| <b>CLASSIFICATION</b>    | : Bureau Veritas<br>1 ⚓ HULL ● MACH Escort Tug<br>(Bollard Pull = 80t) (maximum steering force = 75t, maximum braking force = 90t, maximum escort speed = 10 kn)<br>Unrestricted Service AUT UMS<br>Inwater Survey COMF-NOISE 3, COMF-VIB 3<br>Fire Fighting Ship 1<br>ø Llyod's Register<br>[⚓] 100 A1 Escort Tug (Bollard pull = 85t) [⚓]<br>LMC UMS IWS CAC 3 | Fuel pump                                   | Azcue CA40-1B 12.0m <sup>3</sup> /h  |
| Painting                 | : Epoxy paint system   | Fuel oil purifiers                          | 2x CJC PTU3 27/81 MZ-E2PWZ   |
| <b>DIMENSION</b>         |  | Sewage treatment Plant                      | Tecnicomar ECOMar20  |
| Length overall           | 27.59 m  | Cooling system                              | Box cooling + anti-growth system   |
| Beam overall             | 12.93 m  | Hydraulic system                            | Main engine driven pumps   |
| Depth at sides           | 5.20 m   | FIFI sets                                   | Main engine driven pump 1200, 2400 m <sup>3</sup> /h or ø with water spray   |
| Draught aft              | 6.00 m   | FIFI monitor                                | 1 x 1200 or 2 x 1200 m <sup>3</sup> /h, water/foam   |
| Displacement (approx.)   | 654 t  | <b>DECK LAY-OUT</b>                         |  |
| Gross tonnage            | 388 t  | Anchors                                     | 1 x 430 kg Pool + ø 1 x 430 kg (Pool) (High Holding Power)   |
| <b>TANK CAPACITIES</b>   |  | Anchor winch                                | Electricity driven anchor winch warping head   |
| Fuel oil                 | 102.6 m <sup>3</sup>   | Towing winch                                | Hydraulically driven two speed pull 27 ton at 49 m/min, brake 200 ton  |
| Fresh water              | 17.4 m <sup>3</sup>  | Rendering-Recovery                          | Pull/low speed 30 ton up to 27 m/min on 2 <sup>nd</sup> layer, pull/high speed 30 ton up to 44 m/min on 2 <sup>nd</sup> layer, rendering 112 ton up to 82 m/min on 2 <sup>nd</sup> layer |
| Lubrication oil          | 2.4m <sup>3</sup>  | Fendering                                   | D-fender at sides, cylinder fender at transom corners, cylinder and W-block bow fender with water spray  |
| Dirty oil                | 2.4m <sup>3</sup>  | <b>ACCOMMODATION</b>                        | For max. 10 persons (MLC 2006 compliant)   |
| Sewage                   | 5.6m <sup>3</sup>  | <b>NAUTICAL AND COMMUNICATION EQUIPMENT</b> |  |
| Bilge water              | 4.7m <sup>3</sup>  | Searchlight                                 | 1 x Norselight 2000 W + ø 1 x Norselight 2000 w  |
| Foam                     | 8.7m <sup>3</sup>  | Radar System                                | 1 x Furuno FAR 1518-BB + ø 1 x Furuno FAR 1518-BB  |
| Dispersant               | 4.6m <sup>3</sup>  | Compass / GPS                               | Simrad GN70/HS80A  |
| <b>PERFORMANCES</b>      |  | Compass Magnetic                            | Cassens & Plath Reflecta 11  |
| Bollard Pull ahead       | 85.0 t   | Autopilot                                   | Simrad AP-70   |
| Bollard Pull astern      | 80.0 t   | Echosounder                                 | Furuno FE-800  |
| Speed ahead              | 13.0 kn  | Speed log                                   | Furuno DS-80   |
| <b>PROPULSION SYSTEM</b> |  | VHF Radio telephone                         | 2 x Sailor 6222 (one with DSC) + ø 1 x Sailor 6215   |
| Main engines             | 2 x Caterpillar 3516C TA HD / D  | Navtex                                      | Furuno NX-700A   |
| Total power              | 5050 bkW (6772 bhp) at 1800 rpm  | AIS   | Furuno FA-170  |
| Azimuth thruster         | 2 x Rolls Royce US 255 P30/P35 FP  | SSB   | Furuno FS-1575   |
| Propeller diameter       | 3000 MM FIXTED PITCH   | LRIT  | Furuno Felcom 19   |
| Forced ventilation       | 80,000 M <sup>3</sup> /H   | EPIRB                                       | Jotron Tron 60S  |
| Exhaust emission         | IMO Tier III compliant   | Sart  | Jotron Tron Sart20   |
|                          |  | Inmarsat                                    | Furuno Felcom 18   |
|                          |  | Anemometer                                  | Gill instruments GMX500  |
|                          |  | <b>BUILDER</b>                              | Damen Shipyards Group  |
|                          |  | <b>OWNER</b>                                | Kejora Resources Sdn Bhd   |

*This vessel specification is given in good faith and assumed to be correct in May 2019*

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# GENERAL ARRANGEMENT

TUG NAME: KEJORA PTP 82

