

MARINE DIESEL & ENGINEERING, INC.

525 Greateon Avenue
Davie, FL 33325
(954) 260-5250

VISUAL ENGINE INSPECTION REPORT

DATE:	OCTOBER 8, 2026	INSPECTOR:	JACK DIBELLA
PURCHASER:	BRIAN COLTON	VESSEL:	103
PHONE:	214-763-4689	BUILDER:	WESTBAY
EMAIL:	MStrassel@hmy.com bcolton@therkgroup.com	YEAR:	2001
BROKER:	MICHAEL STRASSEL	VESSEL NAME:	PICOSA LADY
SURVEYOR:	ROLLIE GORDON	LOCATION:	HARBOR TOWN MARINA
		HULL NO.:	BZH01003J001

IDENTIFICATION AND COLD CHECK INFORMATION

	PORT	STARBOARD
ENGINE MANUFACTURER	MTU	MTU
ENGINE SERIAL NUMBER	5362000532	5362000535
ENGINE MODEL NUMBER	R1627K03	R1627K02
ENGINE HOURS	6967	6973
TRANSMISSION MAKE	TWIN DISC	TWIN DISC
TRANSMISSION MODEL	DD 6619SC	DD 6619SC
TRANSMISSION SERIAL	9A1012	PA1011
TRANSMISSION RATIO	2.72:1	2.72:1

FLUID SYSTEMS CHECK

	PORT	STARBOARD
COOLANT LEVEL	FULL	FULL
COOLANT CONDITION	OK	OK
ENGINE OIL LEVEL	FULL	FULL
ENGINE OIL CONDITION	OK	OK
TRANSMISSION OIL LEVEL	FULL	FULL
TRANSMISSION OIL CONDITION	CLEAN	CLEAN
TRANSMISSION STRAINER	SPIN ON FILTER	SPIN ON FILTER

INSPECTION OF PORT ENGINE

SEA WATER INLET VALVE	OPERATIONAL
SEA WATER INLET HOSE	AGED
SEA WATER STRAINER	CLEAN
RAW WATER PUMP	NO LEAKS OBSERVED
RAW WATER PIPING	SECURE
FUEL COOLER	NO LEAKS OBSERVED
AFTER COOLERS	NO LEAKS OBSERVED
TRANSMISSION OIL COOLER	NO LEAKS OBSERVED
RAW WATER DISCHARGE HOSE	SERVICEABLE
RAW WATER HOSES	SERVICEABLE
RAW WATER CLAMPS	SECURE

EXHAUST

DISCHARGE RISERS	BLANKETED/NO LEAKS OBSERVED
EXHAUST HOSE	SERVICEABLE
EXHAUST CLAMPS	SECURE

COOLING SYSTEM

HEAT EXCHANGERS	PLATE STYLE/NO LEAKS OBSERVED
FRESH WATER PUMP	NO LEAKS OBSERVED
COOLANT HOSES	SERVICEABLE
CLAMPS	SECURE
HIGH PRESSURE LINES	SECURE

FUEL SYSTEM

PRIMARY FUEL FILTERS	DUAL SEA PRO
SECONDARY FILTERS	MTU SPIN ON
FUEL SUPPLY HOSE	SERVICEABLE
ENGINE FUEL LINES	SECURE
FUEL MANIFOLD	VALVES ON SEA PRO
FUEL PRIMING SYSTEM	HAND PUMP

INSPECTION OF PORT ENGINE (CONT'D)

ENGINE AIR INTAKE

TYPE	WALKER AIR SEPS
AIR SEP REGULATOR	SERVICEABLE
AIR SEP DRAIN LINES	SECURE

ENGINE ASPIRATION

TURBO CHARGERS	TWIN WATER COOLED
BLOWERS	N/A
CHARGE-AIR COOLER	FRESH WATER COOLED
AIR SHUT DOWN SYSTEM	YES
BOOST HOSE & PIPING	SECURE

ENGINE MOUNTING

TYPE	VIBRATION ISOLATORS
CONDITION	FIRM

CONTROLS

TYPE	ELECTRONIC
OPERATION	OK
SYNCHRONIZER	YES

INSPECTION OF STARBOARD ENGINE

SEA WATER INLET VALVE	OPERATIONAL
SEA WATER INLET HOSE	AGED
SEA WATER STRAINER	CLEAN
RAW WATER PUMP	NO LEAKS OBSERVED
RAW WATER PIPING	SECURE
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RAW WATER HOSES	SERVICEABLE
RAW WATER CLAMPS	SECURE

EXHAUST

DISCHARGE RISERS	BLANKETED/NO LEAKS OBSERVED
EXHAUST HOSE	SERVICEABLE
EXHAUST CLAMPS	SECURE

COOLING SYSTEM

HEAT EXCHANGERS	PLATE STYLE/NO LEAKS OBSERVED
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INSPECTION OF STARBOARD ENGINE (CONT'D)

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ENGINE ASPIRATION

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BLOWERS	N/A
CHARGE-AIR COOLER	FRESH WATER COOLED
AIR SHUT DOWN SYSTEM	YES
BOOST HOSE & PIPING	SECURE

ENGINE MOUNTING

TYPE	VIBRATION ISOLATORS
CONDITION	FIRM

CONTROLS

TYPE	ELECTRONIC
OPERATION	OK
SYNCHRONIZER	YES

STATIONARY INSPECTION OF ACCESSORIES

	PORT	STARBOARD
ENGINE AIR COMPRESSOR	N/A	N/A
STABILIZER PUMPS	N/A	N/A
POWER STEERING PUMPS	N/A	N/A
PTO	N/A	N/A
BELT DRIVEN ADD ONS	ALTERNATOR	ALTERNATOR
OIL UNDER ENGINES	NO	NO
MISC ENGINE OIL LEAKS	NO	NO
TRANS OIL LEAKS	NO LEAKS OBSERVED	NO LEAKS OBSERVED
FUEL LEAKS	NO LEAKS OBSERVED	NO LEAKS OBSERVED
COOLANT LEAKS	NO LEAKS OBSERVED	NO LEAKS OBSERVED
SALT WATER LEAKS	NO LEAKS OBSERVED	NO LEAKS OBSERVED
EXHAUST LEAKS	NO LEAKS OBSERVED	NO LEAKS OBSERVED
BOOST LEAKS	NO LEAKS OBSERVED	NO LEAKS OBSERVED
HYDRAULIC OIL LEAKS	NO LEAKS OBSERVED	NO LEAKS OBSERVED
CONTROLS	DDEC	DDEC

INITIAL START UP INSPECTION

	PORT	STARBOARD
BATTERY VOLTAGE	24 VDC	24 VDC
ALARM OPERATIONAL	OPERATIONAL	OPERATIONAL
ALL GAUGES TO ZERO	YES	YES

ENGINE STARTED COLD DOCKSIDE

	PORT	STARBOARD
EXHAUST SMOKE	NO	NO
OIL PRESSURE	110	105
TRANS PRESSURE	220	220
R.P.M.	575	575
ENGINE VIBRATION	NO	NO
BATTERY VOLTAGE	27.2	27.4
INSPECTED FOR LEAKS	YES	YES
CONTROL OPERATION	OK	OK

SEATRIAL OPERATING AT CRUISE

	PORT	STARBOARD
CRUISING RPM	1952	1952
COOLANT TEMP	180	179
ENGINE OIL PRESSURE	109	104
BOOST	34	34
FUEL RATE	58 GPH	62 GPH
ENGINE LOAD%	74%	80%
TRANS OIL PRESSURE	330	125
TRANS OIL TEMP	127	318

SEATRIAL OPERATING AT FULL LOAD

	PORT	STARBOARD
CRUISING RPM	2290	2263
COOLANT TEMP	194	194
ENGINE OIL PRESSURE	104	97
BOOST	38	37
FUEL RATE	93 GPH	91 GPH
ENGINE LOAD%	100%	100%
TRANS OIL PRESSURE	334	322
TRANS OIL TEMP	132	130

AIR BOX PRESSURE	N/A	N/A
EXHAUST BACK PRESSURE	1.5"	1.5"
ENGINE ROOM DEPRESSION	0	0
SALT WATER PRESSURE	POSITIVE	POSITIVE
SALT WATER RESTRICTION	1.0"	1.0"
VIBRATION	NO	NO
BATTERY VOLTAGE	29.7	28.9

IDLE SPEED OPERATING CONDITION

(CHECK AFTER COOL DOWN FROM RUNNING HARD)

	PORT	STARBOARD
ENGINE RPM	575	575
COOLANT TEMP	180	182
ENGINE OIL PRESSURE	99	100
ENGINE OIL TEMP	177	177
TRANS PRESSURE	334	320
TRANS OIL TEMP	167	148

BACK DOWN TEST

(RUN ONE ENGINE AT A TIME FWD & RVRS UP TO 1500 RPM)

	PORT	STARBOARD
MOUNT MOVEMENT OR RUNOUT	NO	NO
TRANS CUPLING RUNOUT	0	0
TRANS REAR SEAL LEAK	NO	NO
SHAFT SEAL LEAKING WATER	NO	NO
SHAFT MOVEMENT	NO	NO
ENGINE STALLING	NO	NO

OIL SAMPLES TAKEN FROM

PORT ENGINE	YES
STARBOARD ENGINE	YES
PORT TRANSMISSION	YES
STBD. TRANSMISSION	YES
GENERATOR(S)	YES

GENERATOR SET(S)

(COLD CHECKS BEFORE STARTING)

	PORT	STARBOARD
MANUFACTURER	PHASOR	PHASOR
MODEL		
SERIAL	10629	10830
KW	65KW	65KW
HOURS	2339.3	2319.0
AC VOLTAGE	240 VAC	240 VAC
DC VOLTAGE	12 VDC	12 VDC
HZ	60	60
PHASE	SINGLE	SINGLE
WIRED 120 OR 120/240	120-240	120-240
OIL LEVEL	FULL	FULL
OIL CONDITION	OK	OK
COOLANT LEVEL	FULL	FULL
COOLANT CONDITON	OK	OK
BELT TENSION	GOOD	GOOD
LIFT MUFFLER CONDITION	SECURE	SECURE
EXHAUST HOSE CONDITION	DRY CRACKED	DRY CRACKED
FRESH WATER PUMP	NO LEAKS OBSERVED	NO LEAKS OBSERVED
HOSES AND CLAMPS	GOOD	GOOD
EXHAUST ELBOW CONDITION	NO LEAKS OBSERVED	NO LEAKS OBSERVED
GENERAL WIRING	GOOD	GOOD
SEA STRAINER	CLEAN	CLEAN
SEA VALVE	FREE	FREE
CIRCUIT BREAKER	HELD LOAD	HELD LOAD

START UP AND TEST RUN

RUNNING AT AVERAGE LOAD

	PORT	STARBOARD
AC VOLTAGE	119	121
AMP DRAW	42	31
HZ	61	60
EXHAUST COLOR	CLEAN	CLEAN
SALT WATER FLOW	GOOD	GOOD
FRESH WATER TEMP	186	184
OIL PRESSURE	62	60

ENGINE SURVEY

VESSEL IS EQUIPPED WITH TWO MTU MARINE DIESEL ENGINES, TWIN DISC TRANSMISSIONS AND TWO PHASOR GENERATOR SETS.

THE OVERALL CONDITION OF THE ENGINE ROOM IS GOOD.

THE ENGINES ARE EQUIPPED WITH RACOR FUEL FILTERS, WALKER AIR SEP SYSTEMS, FUEL PRIMERS AND AN OIL CHANGE SYSTEMS.

BOTH ENGINES RAN WELL FOR THE DURATION OF THE SEA TRIAL.

THE FOLLOWING ARE RECOMMENDATIONS BASED UPON EXTERNAL VISUAL INSPECTION AND SEA TRIAL:

PORT ENGINE:

- 1. TROLLING VALVE LEVER ON TRANSMISSION IS NOT PROPERLY SECURED. RECOMMEND SECURE LEVER WITH A PROPER BRACKET.**

STARBOARD ENGINE:

- 1. TROLLING VALVE LEVER ON TRANSMISSION IS NOT PROPERLY SECURED. RECOMMEND SECURE LEVER WITH A PROPER BRACKET.**
- 2. OIL LEAK BACK OF OIL FILTER HOUSING. RECOMMEND REPLACE OIL FILTER HOUSING GASKET.**
- 3. ALARM FOR COOLANT PRESSURE. RECOMMEND REPLACE COOLANT PRESSURE SENSOR.**

GENERATOR RECOMENDATIONS:

VESSEL IS EQUIPPED WITH TWO PHASOR GENERATOR SETS. THE GENERATOR SETS HAVE BEEN REPLACED AND FOUNT TO BE IN GOOD CONDITION.

THE FOLLOWING ARE RECOMMENDATION BASED UPON A VISUAL INSPECTION AND LOAD TEST USING SHIPS EQUIPMENT:

PORT GEN SET:

- 1. EXHAUST HOUSES AT MUFFLER ARE DRY CRACKED. RECOMMEND REPLACE DRY CRACKED HOSES.**

STARBOARD GEN SET:

- 1. EXHAUST HOUSES AT MUFFLER ARE DRY CRACKED. RECOMMEND REPLACE HOSES.**

The Opinions and Recommendations set forth in this report were compiled as of this date stated and do no imply or constitute a warranty of any type. This report issued without prejudice to the rights of whom it may concern.