

## MYCOM SCREW GEAR PUMP

# TEST RECORDS

**PUMP**
**TESTED ON :** July 7th, 2023

MODEL	M50P-LS01
SERIAL	M054635
DIR. OF FLOW	LEFT

**HYDROSTATIC AND GAS LEAK TEST**

ITEM	UNIT	HYDROSTATIC	GAS LEAK
TEST PRESSURE	Kg/cm <sup>2</sup>	39.7	26.5
HOLD TIME	min.	15	30
RESULT	-	<b>ACCEPTED</b>	<b>ACCEPTED</b>

**PERFORMANCE TEST**

ITEM	UNIT	1	2	3	4	5
REVOLUTION	rpm	1199	1199	1199	1199	1199
LIQUID TEMPERATURE	° C	37	37	37	37	37
OIL PUMP TEMPERATURE	° C	35				
<b>FLOW RATES</b>	sec./300Liters	198.49	203.05	208.95	210.28	-
	Liter/min.	90.7	88.6	<b>86.1</b>	85.6	-
DISCHARGE PRESSURE	MPaG	0.10	0.20	0.30	0.33	0.43
SUCTION PRESSURE	MPaG	0.00	0.00	0.00	0.00	0.00
TOTAL PRESSURE	MPaG	0.10	0.20	0.30	0.33	0.43
THEORETICAL POWER	kW	0.148	0.289	0.421	0.460	-
MOTOR TORQUE	kg.m	0.204	0.325	0.453	0.499	0.621
	N.m	2.00	3.19	4.44	4.89	6.09
<b>BRAKE KILOWATT</b>	kW	0.251	0.400	<b>0.557</b>	0.614	0.765
PUMP EFFICIENCY	%	58.9	72.2	75.6	75.0	-
VISCOSITY	cSt	50				
STD. FLOW RATES	Liter/min.	-	-	<b>78.200</b>	-	-
STD. BRAKE KILOWATT	kW	-	-	<b>0.667</b>	-	-
RESULT	-	-	-	<b>ACCEPTED</b>	-	-

**MILL SHEET**
**TEST ITEM(S)**

\* CERTIFICATION OF MATERIALS OF CASTINGS (GEAR CASING FOR OIL PUMP AND DRIVE ROTOR + IDLE ROTOR)

**TEST RESULT**

ACCEPTED

**DATE OF ISSUE :** July 12th, 2023

APPROVED BY



## MYCOM SCREW GEAR PUMP

# TEST RECORDS

**PUMP**
**TESTED ON :** July 7th, 2023

MODEL	M50P-LS01
SERIAL	M054636
DIR. OF FLOW	LEFT

**HYDROSTATIC AND GAS LEAK TEST**

ITEM	UNIT	HYDROSTATIC	GAS LEAK
TEST PRESSURE	Kg/cm <sup>2</sup>	39.7	26.5
HOLD TIME	min.	15	30
RESULT	-	<b>ACCEPTED</b>	<b>ACCEPTED</b>

**PERFORMANCE TEST**

ITEM	UNIT	1	2	3	4	5
REVOLUTION	rpm	1199	1199	1199	1199	1199
LIQUID TEMPERATURE	° C	37	37	37	37	37
OIL PUMP TEMPERATURE	° C	35				
<b>FLOW RATES</b>	sec./300Liters	198.10	202.70	206.58	209.74	-
	Liter/min.	90.9	88.8	<b>87.1</b>	85.8	-
DISCHARGE PRESSURE	MPaG	0.10	0.20	0.30	0.33	0.46
SUCTION PRESSURE	MPaG	0.00	0.00	0.00	0.00	0.00
TOTAL PRESSURE	MPaG	0.10	0.20	0.30	0.33	0.46
THEORETICAL POWER	kW	0.148	0.289	0.426	0.462	-
MOTOR TORQUE	kg.m	0.197	0.326	0.446	0.490	0.647
	N.m	1.93	3.20	4.37	4.80	6.34
<b>BRAKE KILOWATT</b>	kW	0.242	0.402	<b>0.549</b>	0.603	0.796
PUMP EFFICIENCY	%	61.1	72.1	77.7	76.6	-
VISCOSITY	cSt	50				
STD. FLOW RATES	Liter/min.	-	-	<b>78.200</b>	-	-
STD. BRAKE KILOWATT	kW	-	-	<b>0.667</b>	-	-
RESULT	-	-	-	<b>ACCEPTED</b>	-	-

**MILL SHEET**
**TEST ITEM(S)**

\* CERTIFICATION OF MATERIALS OF CASTINGS (GEAR CASING FOR OIL PUMP AND DRIVE ROTOR + IDLE ROTOR)

**TEST RESULT**

ACCEPTED

**DATE OF ISSUE :** July 14th, 2023

APPROVED BY