

L-504A/505A

OIL FILTERS

CAPACITY m3/h(BPD) : 2.5 (377.38)
ID mm (ft.-in) : 128.2 (0'-5")
LENGTH /T mm (ft.-in) : 446 (1'-5.5")
OP PRESS / DES PRESSURE barg (psig) : 3 / 5.4 (43.5 / 78.5)
OP TEMP / DESIGN TEMP °C (°F) : 65 / 105 / -3 (149 / 221 / 26.6)
UTC NO. :
TRIM NO. : L-504A/505A-S10A

E-133A

LUBE OIL COOLER

DUTY MMcal/hr. (MMBTU/hr) : 0.015 (0.061)
OP PRESS / DES PRESSURE barg (psig) : 3 / 5.4 (43.5 / 78.5)
OP TEMP INLET / OUTLET °C (°F) : 71.5 / 58 (160.5 / 136.4)
DESIGN TEMP °C (°F) : 105 / -3 (221 / 26.6)
UTC NO. :
TRIM NO. : E-ET133A-S10A

GENERAL NOTES:

- A. FOR STANDARD SYMBOLS AND NOMENCLATURE SEE DRAWINGS 50489-530-020-PID-1104.001 & .002.
B. ALL EQUIPMENT NUMBERS SHOWN ON THIS P&ID ARE PRECEDED BY 530--.
C. ALL INSTRUMENT NUMBERS SHOWN ON THIS P&ID ARE PRECEDED BY 030--.
D. FOR TYPICAL INSTRUMENT CONNECTION, SBDV, XV, MOV & ESDV DETAILS SEE DRAWINGS 50489-530-020-PID-1106.001, .002, .003, .004, .005, .006 & .007.
E. FOR MISCELLANEOUS PIPING TYPICAL VALVING, DRAINAGE & GENERAL ARRANGEMENT OF LEVEL INSTRUMENTS, PUMPS, STRAINERS & CONTROL VALVES SEE DRAWINGS 50489-530-020-PID-1108.001 TO 1108.010.
F. DRAWING NUMBERS SHOWN IN P&ID CONTINUATION BOXES ARE ABBREVIATED SHOWING DRAWING SEQUENTIAL NUMBERS ONLY. THE FULL FORM OF THE DRAWING NUMBER IS 50489-530-020-PID-XXXX.SHT.NO.
G. FOR MATERIAL SELECTION DIAGRAM SEE DRAWINGS 50489-530-020-MSD-1001.001 TO 1023.
H. DETAIL NUMBERING FOR CI, SC, CC & CP SEE DRAWING 50489-530-020-PID-1108.003.
I. PAINTING & COATING ARE IN ACCORDANCE WITH KOC-P-001.
J. LOW POINT DRAIN & HIGH POINT VENT ARE INDICATED IN P&ID.
K. FOR CAUSE & EFFECT REFER DOC. NO. 50489-530-020-PHL-1009.
L. FOR ALARM VALUES REFER DOC. NO. 50489-530-020-SUM-1006.

NOTES:

1. THE COMPRESSOR USES THE MAIN DRIVE MOTOR FOR BOTH STAGES OF COMPRESSION AND FOR THE LUBE OIL PUMP.
2. INTERCOOLER, AFTERCOOLER & THE LUBE OIL COOLER ARE INSTALLED ON THE SAME BAY. FANS PHILOSOPHY IS 3x50%. FANS ARE COMMON TO INTERCOOLER/AFTERCOOLER/LUBE OIL COOLER. FOR DETAIL REFER PID: 1220.003.
3. OIL FILLING PORT.
4. LUBE OIL TO BE SUITABLE FOR IMMEDIATE START AT ALL TEMPERATURES IN THE RANGE -3°C TO MAXIMUM AMBIENT.
5. FOR SET POINTS OF ALARM, REFER TO THE VENDOR DOCUMENT "50489-530-020-00048-LST-V003 ALARM & TRIP SET-POINT SUMMARY FOR PLANT AIR COMPRESSOR PACKAGE"
6. LUBE OIL SUMP IS AN INTEGRAL PART OF COMPRESSOR ASSEMBLY.
7. MECHANICAL PREDISPOSITION FOR TEMPORARY INSTALLATION OF PRESSURE AND TEMPERATURE INSTRUMENTS ARE INSTALLED ON COOLERS. THESE CONNECTIONS ARE NPT TYPE AND ARE 3/4" FOR PRESSURE INSTRUMENTS AND 1" FOR THERMOWELL. FOR MORE INFORMATION REFER TO VENDOR DOCUMENT "50489-530-040-00048-DTL-V005 FABRICATION DRAWING FOR INSTRUMENT & PLANT AIR COOLERS".
8. TO SKID EDGE
9. VENDOR PID NO: 50489-530-020-00048-PID-V002 SHEET 3 OF 4.

AS-BUILT

KOC APPROVAL

NAME / KOC No:

DESIGNATION :

GROUP / TEAM :

SIGNATURE :

DATE :

AS-BUILT

LARSEN & TOUBRO LIMITED

NAME : VAIBHAV VERMA

DESIGNATION : AGM

SIGNATURE :


DATE : 09-Aug-2018

DEPT/ DIVISION : ENGINEERING

ZO	ISSUED FOR AS-BUILT	HSH/ABY	AKG	SRA	RAK	09.08.18
O	ISSUED FOR CONSTRUCTION	HSH/ABY	AKG	SRA	RAK	14.06.16
B	ISSUED INCORPORATED CLIENT COMMENTS	PAK/ABY	AKG	SRA	RAK	17.05.16
A	ISSUED FOR APPROVAL	JSI/ABY	AKG	SRA	RAK	09.10.15
REV.	DESCRIPTION	DRAWN	CHECKED	HOD	PEM	DATE
				APPRD.		

CONTRACTOR REVISION

KUWAIT OIL CO. K. S. C.  **شركة نفط الكويت ش.م.ك.**
Kuwait Oil Company
شركة نفط الكويت

CONTRACTOR DETAILS:-
 **LARSEN & TOUBRO LIMITED**
FARIDABAD
PROJECT TITLE:-
NEW GATHERING CENTRE GC-30
IN NORTH KUWAIT

DOCUMENT TITLE:-
PIPING & INSTRUMENTATION DIAGRAM
PA COMPRESSOR PACKAGE (K-103A) LUBE OIL SYSTEM
PROJECT NO. DRAWING NO.
CONTRACTOR DRG. NO. REV. KOC DRG. NO. REV.
50489-530-020-PID-1223.004 ZO
SHEET NO. 4 OF 8 SHEET NO.
COMPANY DRG. NO. REV.
EF1902-530-DCO-PID-0223.001 A3
SHEET NO.