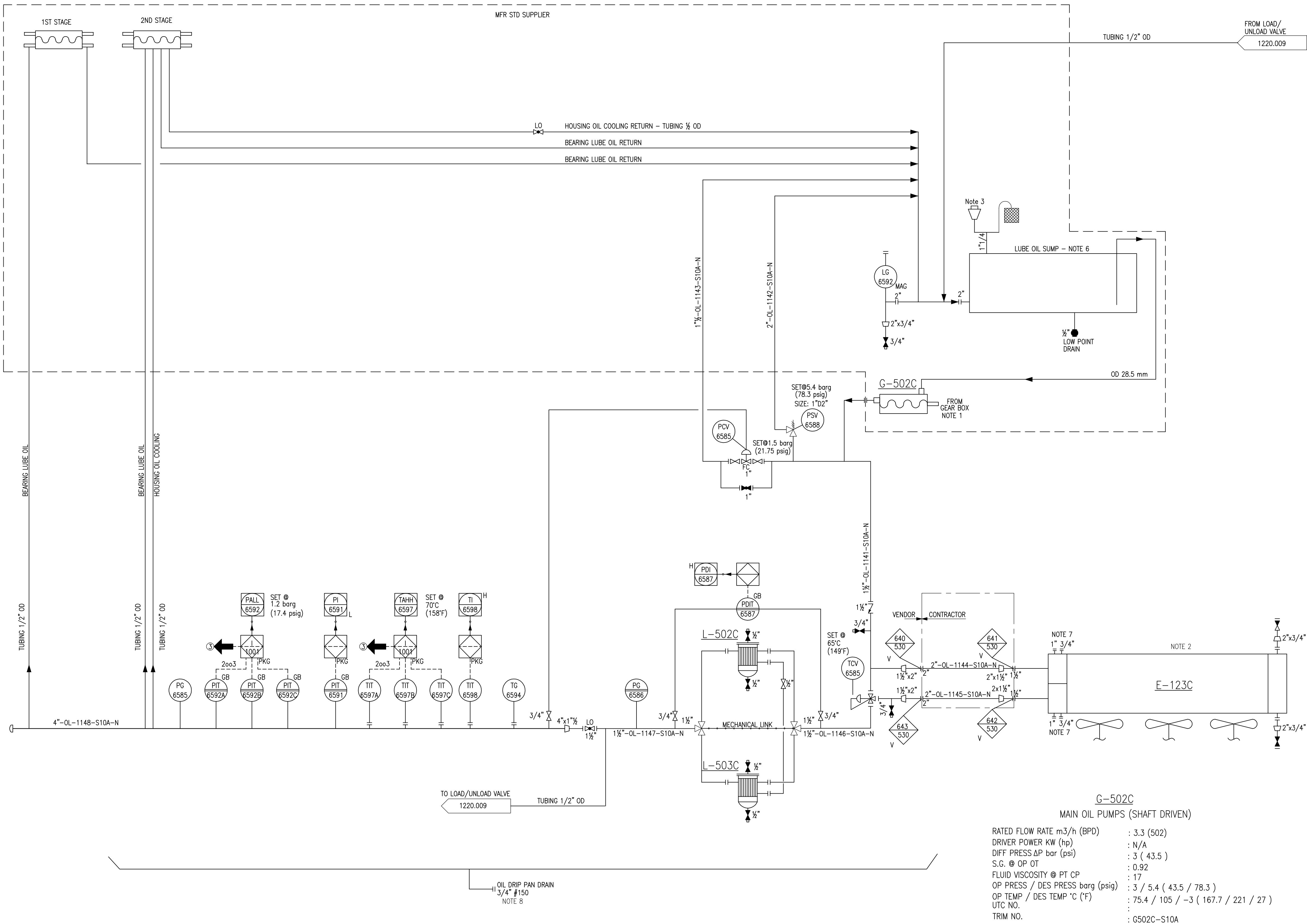


L-502C/503C  
OIL FILTERS

CAPACITY m3/h (BPD) : 2.5 (376)  
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-502C/503C-S10A

E-123C  
LUBE OIL COOLER

DUTY MMKcal/hr. (MMBTU/hr) : 0.012 ( 0.047 )  
OP PRESS / DES PRESSURE barg (psig) : 3 / 5.4 ( 43.5 / 78.5 )  
OP TEMP INLET / OUTLET °C (°F) : 75.4 / 65 ( 167.7 / 149 )  
DESIGN TEMP °C (°F) : 105 / -3 ( 221 / 26.6 )  
UTC NO. :  
TRIM NO. : ET-E123C-S10A



## GENERAL NOTES:

- FOR STANDARD SYMBOLS AND NOMENCLATURE SEE DRAWINGS 50489-530-020-PID-1104.001 & .002.
- ALL EQUIPMENT NUMBERS SHOWN ON THIS P&ID ARE PRECEDED BY 530--.
- ALL INSTRUMENT NUMBERS SHOWN ON THIS P&ID ARE PRECEDED BY 030--.
- FOR TYPICAL INSTRUMENT CONNECTION, SBDV, XV, MOV & ESDV DETAILS SEE DRAWINGS 50489-530-020-PID-1106.001, .002, .003, .004, .005, .006 & .007.
- 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.
- 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.
- FOR MATERIAL SELECTION DIAGRAM SEE DRAWINGS 50489-530-020-MSD-1001.001 TO 1023.
- DETAIL NUMBERING FOR CI, SC, CC & CP SEE DRAWING 50489-530-020-PID-1108.003.
- PAINTING & COATING ARE IN ACCORDANCE WITH KOC-P-001.
- LOW POINT DRAIN & HIGH POINT VENT ARE INDICATED IN P&ID LAYOUT.
- FOR CAUSE & EFFECT REFER DOC. NO. 50489-530-020-PHL-1009.
- FOR ALARM VALUES REFER DOC. NO. 50489-530-020-SUM-1006.

## NOTES:

- THE COMPRESSOR USES THE MAIN DRIVE MOTOR FOR BOTH STAGES OF COMPRESSION AND FOR THE LUBE OIL PUMP.
- 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: 1220.004.
- OIL FILLING PORT.
- LUBE OIL TO BE SUITABLE FOR IMMEDIATE START AT ALL TEMPERATURES IN THE RANGE -3°C TO MAXIMUM AMBIENT.
- FOR SET POINTS OF ALARM, PLEASE REFER TO THE DOCUMENT "50489-530-020-00048-1ST-V002 ALARM & TRIP SET-POINT SUMMARY FOR INSTRUMENT AIR COMPRESSOR AND DRYER PACKAGE"
- LUBE OIL SUMP IS AN INTEGRAL PART OF COMPRESSOR ASSEMBLY.
- 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".
- TO SKID EDGE
- VENDOR PID NO: 50489-530-020-00048-PID-V001 SHEET 2 OF 3.


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	PAK/ABY	AKG	SRA	RAK	09.08.18
O	ISSUED FOR CONSTRUCTION	PAK/ABY	AKG	SRA	RAK	10.06.16
B	ISSUED INCORPORATED CLIENT COMMENTS	PAK/ABY	AKG	SRA	RAK	13.05.16
A	ISSUED FOR APPROVAL	JSI/ABY	AKG	SRA	RAK	29.10.15
REV.	DESCRIPTION	DRAWN	CHECKED	HOD	PEM	DATE

## CONTRACTOR REVISION

<b>KUWAIT OIL CO.</b> <b>K. S. C.</b> 2'-3'4"	 <b>شركة نفط الكويت</b> <b>ش.م.ك.</b> إحدى شركات مؤسسة الكويت للتقانة A Subsidiary of Kuwait Petroleum Corporation
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CONTRACTOR DETAILS:-
 <b>LARSEN &amp; TOUBRO LIMITED</b> FARIDABAD
PROJECT TITLE:-
NEW GATHERING CENTRE GC-30 IN NORTH KUWAIT

DOCUMENT TITLE:-
<b>PIPING &amp; INSTRUMENTATION DIAGRAM</b> <b>IA COMPRESSOR PACKAGE (K-102C) LUBE OIL SYSTEM</b>
PROJECT NO.
DRAWING NO.
CONTRACTOR DRG. NO.
50489-530-020-PID-1220.011
REV.
ZO
KOC DRG. NO.
SHEET NO. 11 OF 16
COMPANY DRG. NO.
EF1902-530-DCO-PID-0220.001
REV.
A3
SHEET NO.