

# LABORATORY ANALYSIS

<b>Company</b> ....:	<b>Product</b> ....: ENLUBE S-CHEM PAO-ACO-48
<b>Address</b> ....:	<b>Equipment</b> ....: AIR COMPRESSOR #5
	<b>Equipment No...</b> : COMP05
	<b>Make</b> ....: QUINCY (FACILITIES)
<b>Department</b> ....:	<b>Model</b> ....: QSI-500
	<b>System</b> ....: COMPRESSOR OIL
	<b>Filtration</b> ....: XEM:

Test Number	New (Typical)	33	34	35	36
Lab Number		1109-00581	1110-00648	1112-00848	1202-00559
Date of Sample		09/05/11	10/03/11	12/12/11	02/06/12
Oil Addition		UNK	UNK	UNK	UNK
Last Drain Date		11/20/08	11/20/08	11/20/08	11/20/08
Months on Sample		32.87	33.77	36.03	37.81
Last Filter Service		07/15/10	07/15/10	07/15/10	07/15/10
Sample Point					

**COMMENTS** Test#33 - HOURS: 69,085  
 Test#34 - HOURS: 45,801  
 Test#35 - HOURS: 46,106  
 Test#36 - HOURS: 46,932

### VISCOSITY @ 100F or 40C (ASTM D-445)

SSU Vis. @ 100F	224.4	241.2	242.1	243.4
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### % WATER - KARL FISCHER (ASTM D4377)

% Water (KF)	0.009	0.011	0.007	0.009
ppm Water (KF)	90	110	70	90

### TOTAL ACID NUMBER (NEUT. NO.)(ASTM D974)

TAN, mg KOH/gm	0.11	0.54	0.49	0.55
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### COLOR (BASED ON ASTM D1500 STANDARDS)

Color	<0.5	8.0	8.0	8.0
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Test#34 - CLOUDY  
 Test#35 - OPAQUE  
 Test#36 - OPAQUE

### ROTATING PRESSURE VESSEL (ASTM D2272) End Point=25.4psi Drop

Bath Temp, C	150	150		
Min. to End-Run 1	2182	924		

### DR FERROGRAPHY READINGS

L	1.5	7.5	2.4	1.5
S	0.8	3.0	1.2	0.5
WPC	2.3	10.5	3.6	2.0
L/S	1.9	2.5	2.0	3.0
L-S	0.7	4.5	1.2	1.0

### LIGHT EXTINCTION PARTICLE COUNTS (PER 100 ML) - CM CLASSES

4-5 Micron	14,900	316,100	244,900	225,900
5-10 Micron	7,200	272,300	178,800	229,700
Class	2	8	7	7
10-25 Micron	900	31,300	13,000	29,800

No Charge Laboratory Services: **142.00**

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**Equipment** ....: AIR COMPRESSOR #5  
**Equipment No...**: COMP05  
**Make** ....: QUINCY (FACILITIES)  
**Model** ....: QSI-500  
**System** ....: COMPRESSOR OIL  
**Filtration** ....: **XEM:**

**Department** ....:

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## LIGHT EXTINCTION PARTICLE COUNTS (PER 100 ML) - CM CLASSES

Class	1	6	5	6
25-50 Micron	100	1,500	1,200	2,800
Class	1	4	4	5
50-100 Micron	100	200	400	400
Class	3	4	5	5
>100 Micron	0	0	0	0
Class	00	00	00	00

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### ICP - OILS (REPORTED IN PARTS PER MILLION)

	33	34	35	36
Aluminum (Al)	<1	<1	<1	<1
Antimony (Sb)	<1	<1	<1	<1
Cadmium (Cd)	<1	<1	<1	<1
Chromium (Cr)	<1	<1	<1	<1
Cobalt (Co)	<1	<1	<1	<1
Copper (Cu)	<1	<1	<1	<1
Iron (Fe)	<1	<1	<1	<1
Lead (Pb)	<1	<1	<1	<1
Manganese (Mn)	<1	<1	<1	<1
Molybdenum(Mo)	<1	<1	<1	<1
Nickel (Ni)	<1	<1	<1	<1
Silver (Ag)	<1	<1	<1	<1
Tin (Sn)	<1	<1	<1	<1
Titanium (Ti)	<1	<1	<1	<1
Vanadium (V)	<1	<1	<1	<1
Barium (Ba)	<1	<1	<1	<1
Boron (B)	<1	<1	<1	<1
Calcium (Ca)	<1	<1	<1	<1
Magnesium (Mg)	<1	<1	<1	<1
Phosphorus(P)	580	339	369	344
Silicon (Si)	<1	<1	<1	<1
Zinc (Zn)	<1	15	16	13

No Charge Laboratory Services: 26.50

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