

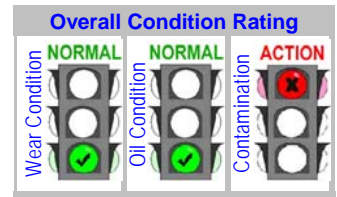
Customer Code : **16005107**
 Customer Name : **S027**
 Address :

Unit ID Number : **Compressor Air Before Filter**

Unit Type : Compressor Screw
 Unit Make : (not given)
 Unit Model : (not given)
 Oil type / Viscosity : SHELL AW 46
 Site Name :
 Location :

Test code : 838

Lube System Capacity :



Recommendations and Notes

Particle count indicates that oil cleanliness level is in unacceptable range.
 Note viscosity is slightly over the Alarm Limits, but are not considered serious at this time.
 All wear conditions and wear tests appear in normal working range.

WC / Andy Sitton

| | | | Current Sample | | Previous Sample | | Alarm Limit Range | | | | | |
|-------------------|--------------|-----------|----------------|------------|-----------------|-----------|-------------------|--------------------------------|----------|-----------|----------|-------|
| Condition History | | | Wear | Oil | Cont. | | | Limit Name (Equipment / Oil) : | | | | |
| | | | N | N | A | | | Comp Screw General ISO 46 | | | | |
| FocusLab ID | Test Method | Result | | | | | | | | | | |
| Date sampled | | | 73198 | | | | | | | | | |
| Hours on Oil | | | 03-Apr-07 | | | | | | | | | |
| Hours on Unit | | | 8000 | | | | | | | | | |
| Bottle ID | | | 10 years | | | | | | | | | |
| Bottle ID | | | 380965 | | | | | | | | | |
| Wear Condition | | | RDE fine | RFS coarse | | | New Oil | U-Caution | U-Action | L-Caution | L-Action | |
| Wear Element | Method | Unit | | | | | | | | | | |
| Iron | D-6595 | PPM | 2.5 | | | | >15 | >25 | >15 | >25 | | |
| Chromium | D-6595 | PPM | 0.2 | | | | >1 | >2 | >1 | >3 | | |
| Lead | D-6595 | PPM | 0.0 | | | | >3 | >5 | >4 | >7 | | |
| Copper | D-6595 | PPM | 0.3 | | | | >8 | >15 | >4 | >7 | | |
| Tin | D-6595 | PPM | 0.5 | | | | >4 | >7 | >5 | >10 | | |
| Aluminum | D-6595 | PPM | 0.9 | | | | >1 | >2 | >6 | >12 | | |
| Nickel | D-6595 | PPM | 0.7 | | | | >1 | >2 | >1 | >2 | | |
| Silver | D-6595 | PPM | 0.0 | | | | | | | | | |
| Molybdenum | D-6595 | PPM | 0.2 | | | | | | | | | |
| Titanium | D-6595 | PPM | 0.5 | | | | | | | | | |
| Oil Condition | | | New Oil | L-Action | L-Caution | U-Caution | U-Action | | | | | |
| Viscosity @40°C | D-445 | cSt | 49.5 | C | | | | 46.0 | <41.4 | <43.7 | >48.3 | >50.6 |
| Viscosity @100°C | D-445 | cSt | | | | | | | | | | |
| Oxidation | FTIR | Abs | 7.1 | | | | | | | | | |
| Nitration | FTIR | Abs | 4.2 | | | | | | | | | |
| TAN | D-974 | mg KOH/g. | 0.34 | | | | | | | >0.84 | >1.37 | |
| TBN | D-4739 | mg KOH/g. | | | | | | | | | | |
| Contamination | | | New Oil | | | U-Caution | U-Action | | | | | |
| Water | T-H2O Check™ | % (Wt.) | 0.030 | | | | | | | >0.089 | >0.146 | |
| Sodium | D-6595 | PPM | 0 | | | | | | | | | |
| Silicon | D-6595 | PPM | 6.7 | | | | | | | | | |
| Additive Element | | | New Oil | | | U-Caution | U-Action | | | | | |
| Boron | D-6595 | PPM | 0 | | | | | | | | | |
| Magnesium | D-6595 | PPM | 0 | | | | | | | | | |
| Calcium | D-6595 | PPM | 0 | | | | | | | | | |
| Barium | D-6595 | PPM | 0 | | | | | | | | | |
| Phosphorus | D-6595 | PPM | 1056 | | | | | | | | | |
| Zinc | D-6595 | PPM | 9 | | | | | | | | | |
| Additional Test | | | New Oil | L-Action | L-Caution | U-Caution | U-Action | | | | | |
| Flash Point | D-3828 | °C | | | | | | | | | | |
| Viscosity Index | D-2270 | | | | | | | | | | | |
| Other | | | | | | | | | | | | |

Note: Alarm Limits are variable and dependent upon dataset size and to be used as general guideline.
 No Sign or N : NORMAL , C or ▲ : CAUTION (first level warning limit) , A or ▲ : ACTION required (second level warning limit)
U-Caution : Upper CAUTION Level L-Caution : Lower CAUTION Level First level warning limit in Upper level and/or Lower level
U-Action : Upper ACTION required Level L-Action : Lower ACTION required Level Second level warning limit in Upper level and/or Lower level
 Accuracy of interpretation and recommendation are based on representatives sample and information supplied No warranty is expressed or implied for this report.

Customer Code : **16005107**
 Customer Name : **S027**
 Address :




Unit ID Number : **Compressor Air Before Filter**

Unit Type : Compressor Screw
 Unit Make : (not given)
 Unit Model : (not given)
 Oil type / Viscosity : SHELL AW 46
 Site Name :
 Location :

Test code : 838

Lube System Capacity :

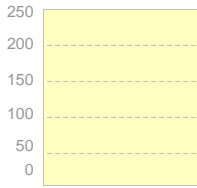
Overall Condition Rating

| | | |
|---|---|---|
| Wear Condition | Oil Condition | Contamination |
|  |  |  |

| | | | Current Sample | | Previous Sample | | Alarm Limit Range | | | | |
|------------------------|--|--|--|---------------------------------------|-----------------|--|---------------------------------------|--|--|--|--|
| FocusLab ID | | | 73198 | | | | Limit Name (Equipment / Oil) : | | | | |
| Date sampled | | | 03-Apr-07 | | | | Comp Screw General ISO 46 | | | | |
| Hours on Oil | | | 8000 | | | | | | | | |
| Hours on Unit | | | 10 years | | | | | | | | |
| Bottle ID | | | 380965 | | | | | | | | |
| Particle Count | | | NAS 1638: Number of Particles Per 100 Milliliter (Counts/100ml) | | | | | | | | |
| Size Range | | | No. of Particles | Class | | | | | | | |
| 5-15 microns | | | 8,978,500 | 12 | | | | | | | |
| 15-25 microns | | | 816,700 | 12 A | | | | | | | |
| 25-50 microns | | | 232,800 | 12 | | | | | | | |
| 50-100 microns | | | 23500 | 12 | | | | | | | |
| >100 microns | | | 1500 | 12 | | | | | | | |
| Particle Count | | | ISO 4406:1999: Number of Particles Per Milliliter (Counts/ml) | | | | | | | | |
| Size Range | | | No. of Particles | Class | | | | | | | |
| >4 microns | | | 269,345 | 25 | | | | | | | |
| >6 microns | | | 75,398 | 23 | | | | | | | |
| >14 microns | | | 10,584 | 21 | | | | | | | |
| ISO 4406 Result | | | 25/23/21 | | | | | | | | |

Recommendations and Notes

Particle count indicates that oil cleanliness level is in unacceptable range.

| Option Test: Varnish Potential Index™ (VPI™), Testing for Predicting Varnish and Varnish build up | | | | | | | |
|--|---|--|--|--|--|-----------|----------|
| VPI™ Value Condition | | | | | VPI™ Severity Limit Range Guideline | | |
| | | | | | New Oil | U-Caution | U-Action |
| |  | | | | | | |

| Option Test: RUL (Remain Useful Life), Testing for monitoring Percent Remaining Anti-Oxidant (AO) by ASTM D-6971 | | | | | | | |
|---|--|--|--|--|---------|-----------|----------|
| % Remaining Antioxidant Additive | | | | | New Oil | U-Caution | U-Action |
| | | | | | 100 | <50 | <25 |

Customer Code : 16005107

Unit ID Number : **Compressor Air Before Filter**

Customer Name : S027

Unit Type : Compressor Screw

Address :

Unit Make : (not given)

Unit Model : (not given)

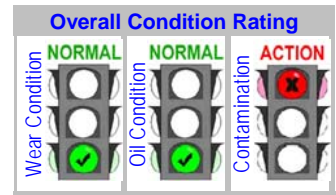
Test code : 838

Oil type / Viscosity : SHELL AW 46

Site Name :

Lube System Capacity :

Location :



FocusLab ID : 73198 Date sampled : 03-Apr-07 Hours on Oil : 8000 Hours on Unit : 10 years Bottle ID : 380965

ส่วนที่ 1 : หน้าหลัก

[Section 1 : Main Page](#)

ผลการตรวจนับอนุภาคสิ่งสกปรกชี้ว่าระดับความสะอาดของน้ำมันยอมรับไม่ได้แล้ว
 สังเกตค่าความหนืดเข้าใกล้ค่าเตือนภัยหรือสูงกว่าเล็กน้อย แต่อาจพิจารณาว่ายังไม่รุนแรงมากนักในขณะนี้
 สภาพการสึกหรอและผลทดสอบการสึกหรอทั้งหมด พบว่าอยู่ในช่วงปกติ

ส่วนที่ 2 : หน้าที่สอง

[Section 2 : Second Page](#)

ผลการตรวจนับอนุภาคสิ่งสกปรกชี้ว่าระดับความสะอาดของน้ำมันยอมรับไม่ได้แล้ว

ส่วนที่ 3 : หน้าของ Analytical Ferrography

[Section 3 : Analytical Ferrography Page](#)

ส่วนที่ 4 : หน้าของ Gravimetric Page

[Section 4 : Gravimetric Page](#)