

## NORMAL NORMAL NORMAL

## 315 - Rear Natural Gas Engine

| Unit Make : 3  | 00 BUS                                |                   |         |   |   |  |  |  |                                    |
|--|---------------------------------------|-------------------|---------|---|---|--|--|--|------------------------------------|
| e inte infante   | n/a}                                  | Serial No         | : { n/a | }   | Da  | te Rec'd   | • Iur  | n 20, 2011   |                                    |
|  | CUMMINS                               | Cust. Ref No.     | : {n/a  | -   |   | mple Dat   |  | iy 31, 2011  | 1                                  |
| comp mane  | -10                                   | Stub No.          | -       | M2215444  |   | -  |  | oug Bogar  |                                    |
| e omp moder  |                                       | Stub No.          | . KL-N  |   |   | •  |  |  |                                    |
| RECOMMENDATION   |                                       |                   |         | Sample Date   | 07/07/10  |  |  |  | UOM                                |
| Resample at the next service interval to monitor.  |                                       |                   |         | Time on Unit  | 485924  | 485924   |  | 509828   | mls                                |
| *  |                                       |                   |         | Time on Oil   | 7633  | 2840   | 3000   | 6000   | mls                                |
|  |                                       |                   |         | Time on Fltr<br>Oil Maint.  | 0   | 2840   | 3000   | 6000   | mls                                |
|  |                                       |                   |         | Filter Maint.   | not chg   | n/a  | v  | -  |                                    |
|  |                                       |                   |         |   | Ű   | not chg  | -  | ÷  |                                    |
| <b>CONTAMINATION</b><br>There is no indication of any contamination in the component. The amount and size of particulates present in the system is acceptable. |                                       |                   |         | Sample Date   |   | 07/28/10   |  |  | Abn                                |
|  |                                       |                   |         | Silicon   | 4.6   | 7.4  | 4.5  | 4.8  | 15                                 |
|  |                                       |                   |         | Fuel (%)  | <2.0  | <2.0   | <2.0   | <2.0   |                                    |
|  |                                       |                   |         | Glycol  |   |  |  |  | 0.02                               |
|  |                                       |                   |         | Water (%)   | < 0.1   | < 0.1  | < 0.1  | < 0.1  | 0.1                                |
|  |                                       |                   |         | Soot (%)  | 0   | 0  | 0  | 0  |                                    |
|  |                                       |                   |         | >4µm(c)   |   | 64   | 589  | 397  |                                    |
|  |                                       |                   |         | >6µm(c)   |   | 34   | 321  | 216  |                                    |
|  |                                       |                   |         | $>14\mu m(c)$   |   | 5  | 54   | 36   |                                    |
|  |                                       |                   |         | $>21\mu m(c)$   |   | 2  | 18   | 12   |                                    |
|  |                                       |                   |         | $>38\mu m(c)$   |   | 0  | 2  | 1  |                                    |
|  |                                       |                   |         | >70µm(c)<br>ISO 4406(c)   |   | 0  | $\frac{0}{16/12}$  | 0 15/12  |                                    |
|  |                                       |                   |         | 15U 4400(C)   |   | 12/10  | 16/13  | 1J/1Z  |                                    |
|  |                                       |                   |         | ,   |   |  |  |  |                                    |
| <b>OIL CONDIT</b>  | ION                                   |                   |         | Sample Date   | 07/07/10  |  |  |  | Base                               |
|  |                                       |                   |         | Sample Date<br>Potassium  | 0.0   | 11   | 0.0  | 15   | Base                               |
| Oil Type: 36 QTS o   | of CHEVRON HI                         | DAX LOW ASH 15W40 |         | Sample Date<br>Potassium<br>Boron   | <b>0.0</b><br>6.9   | 11<br>7.4  | 0.0<br>7.5   | 15<br>6.4  | Base                               |
|  | of CHEVRON HI                         |                   |         | Sample Date<br>Potassium<br>Boron<br>Barium   | 0.0<br>6.9<br>0.0   | 11<br>7.4<br>1.4   | 0.0<br>7.5<br>1.0  | 15<br>6.4<br>0.0   | Base                               |
| Oil Type: 36 QTS o   | of CHEVRON HI                         |                   |         | Sample Date<br>Potassium<br>Boron<br>Barium<br>Calcium  | 0.0<br>6.9<br>0.0<br>1189   | 11<br>7.4<br>1.4<br>1149   | 0.0<br>7.5<br>1.0<br>1272  | 15<br>6.4<br>0.0<br>1401   | Base                               |
| Oil Type: 36 QTS o   | of CHEVRON HI                         |                   |         | Sample Date<br>Potassium<br>Boron<br>Barium<br>Calcium<br>Magnesium   | 0.0<br>6.9<br>0.0<br>1189<br>10   | 11<br>7.4<br>1.4<br>1149<br>4.1  | 0.0<br>7.5<br>1.0<br>1272<br>4.5   | 15<br>6.4<br>0.0<br>1401<br>0.3  | Base                               |
| Oil Type: 36 QTS o   | of CHEVRON HI                         |                   |         | Sample Date<br>Potassium<br>Boron<br>Barium<br>Calcium<br>Magnesium<br>Molybdenum   | 0.0<br>6.9<br>0.0<br>1189<br>10<br>4.7  | 11<br>7.4<br>1.4<br>1149<br>4.1<br>5.1   | 0.0<br>7.5<br>1.0<br>1272<br>4.5<br>3.9  | 15<br>6.4<br>0.0<br>1401<br>0.3<br>175   | Base                               |
| Oil Type: 36 QTS o   | of CHEVRON HI                         |                   |         | Sample Date<br>Potassium<br>Boron<br>Barium<br>Calcium<br>Magnesium<br>Molybdenum<br>Sodium   | 0.0           6.9           0.0           1189           10           4.7           1.0   | 11<br>7.4<br>1.4<br>1149<br>4.1<br>5.1<br>0.6  | 0.0<br>7.5<br>1.0<br>1272<br>4.5<br>3.9<br>0.7   | 15<br>6.4<br>0.0<br>1401<br>0.3<br>175<br>19   | Base                               |
| Oil Type: 36 QTS o   | of CHEVRON HI                         |                   |         | Sample Date<br>Potassium<br>Boron<br>Barium<br>Calcium<br>Magnesium<br>Molybdenum<br>Sodium<br>Phosphorus   | 0.0           6.9           0.0           1189           10           4.7           1.0           264   | 11<br>7.4<br>1.4<br>1149<br>4.1<br>5.1<br>0.6<br>268   | 0.0<br>7.5<br>1.0<br>1272<br>4.5<br>3.9<br>0.7<br>297  | 15<br>6.4<br>0.0<br>1401<br>0.3<br>175<br>19<br>307  | Base                               |
| Oil Type: 36 QTS o   | of CHEVRON HI                         |                   |         | Sample Date<br>Potassium<br>Boron<br>Barium<br>Calcium<br>Magnesium<br>Molybdenum<br>Sodium<br>Phosphorus<br>Sulfur   | 0.0           6.9           0.0           1189           10           4.7           1.0           264           2271  | 11<br>7.4<br>1149<br>4.1<br>5.1<br>0.6<br>268<br>2386  | 0.0<br>7.5<br>1.0<br>1272<br>4.5<br>3.9<br>0.7<br>297<br>2369  | 15<br>6.4<br>0.0<br>1401<br>0.3<br>175<br>19<br>307<br>2174  | Base                               |
| Oil Type: 36 QTS o   | of CHEVRON HI                         |                   |         | Sample Date<br>Potassium<br>Boron<br>Barium<br>Calcium<br>Magnesium<br>Molybdenum<br>Sodium<br>Phosphorus<br>Sulfur<br>Zinc   | 0.0           6.9           0.0           1189           10           4.7           1.0           264           2271           353  | 11<br>7.4<br>1.4<br>1149<br>4.1<br>5.1<br>0.6<br>268<br>2386<br>307  | 0.0<br>7.5<br>1.0<br>1272<br>4.5<br>3.9<br>0.7<br>297<br>2369<br>328   | 15<br>6.4<br>0.0<br>1401<br>0.3<br>175<br>19<br>307<br>2174<br>353   |                                    |
| Oil Type: 36 QTS o   | of CHEVRON HI                         |                   |         | Sample Date<br>Potassium<br>Boron<br>Barium<br>Calcium<br>Magnesium<br>Molybdenum<br>Sodium<br>Phosphorus<br>Sulfur<br>Zinc<br>Visc@100°C   | 0.0           6.9           0.0           1189           10           4.7           1.0           264           2271           353           13.41  | 11<br>7.4<br>1149<br>4.1<br>5.1<br>0.6<br>268<br>2386  | 0.0<br>7.5<br>1.0<br>1272<br>4.5<br>3.9<br>0.7<br>297<br>2369  | 15<br>6.4<br>0.0<br>1401<br>0.3<br>175<br>19<br>307<br>2174  |                                    |
| Oil Type: 36 QTS of The condition of oil   | of CHEVRON HI                         |                   |         | Sample Date<br>Potassium<br>Boron<br>Barium<br>Calcium<br>Magnesium<br>Molybdenum<br>Sodium<br>Phosphorus<br>Sulfur<br>Zinc<br>Visc@100°C<br>TBN  | 0.0           6.9           0.0           1189           10           4.7           1.0           264           2271           353           13.41           4.99   | 11<br>7.4<br>1.4<br>1149<br>4.1<br>5.1<br>0.6<br>268<br>2386<br>307<br>13.00   | 0.0<br>7.5<br>1.0<br>1272<br>4.5<br>3.9<br>0.7<br>297<br>2369<br>328<br>12.76  | 15<br>6.4<br>0.0<br>1401<br>0.3<br>175<br>19<br>307<br>2174<br>353<br>12.62<br>  | 14.4 5.3                           |
| Oil Type: 36 QTS o   | of CHEVRON HI                         |                   |         | Sample Date<br>Potassium<br>Boron<br>Barium<br>Calcium<br>Magnesium<br>Molybdenum<br>Sodium<br>Phosphorus<br>Sulfur<br>Zinc<br>Visc@100°C<br>TBN<br>Sample Date   | 0.0           6.9           0.0           1189           10           4.7           1.0           264           2271           353           13.41           4.99   | 11<br>7.4<br>1.4<br>1149<br>4.1<br>5.1<br>0.6<br>268<br>2386<br>307<br>13.00<br>   | 0.0<br>7.5<br>1.0<br>1272<br>4.5<br>3.9<br>0.7<br>297<br>2369<br>328<br>12.76<br><br>12/10/10  | 15<br>6.4<br>0.0<br>1401<br>0.3<br>175<br>19<br>307<br>2174<br>353<br>12.62<br><br>Current   |                                    |
| Oil Type: 36 QTS of The condition of oil   | of CHEVRON HI<br>l is suitable for fu | rther service.    |         | Sample Date<br>Potassium<br>Boron<br>Barium<br>Calcium<br>Magnesium<br>Molybdenum<br>Sodium<br>Phosphorus<br>Sulfur<br>Zinc<br>Visc@100°C<br>TBN<br>Sample Date<br>PQ   | 0.0           6.9           0.0           1189           10           4.7           1.0           264           2271           353           13.41           4.99           07/07/10  | 11<br>7.4<br>1149<br>4.1<br>5.1<br>0.6<br>268<br>2386<br>307<br>13.00<br><br>07/28/10<br>  | 0.0<br>7.5<br>1.0<br>1272<br>4.5<br>3.9<br>0.7<br>297<br>2369<br>328<br>12.76<br><br>12/10/10  | 15<br>6.4<br>0.0<br>1401<br>0.3<br>175<br>19<br>307<br>2174<br>353<br>12.62<br><br>Current<br>   | 14.4<br>5.3<br>Abn                 |
| Oil Type: 36 QTS of The condition of oil   | of CHEVRON HI<br>l is suitable for fu | rther service.    |         | Sample Date<br>Potassium<br>Boron<br>Barium<br>Calcium<br>Magnesium<br>Molybdenum<br>Sodium<br>Phosphorus<br>Sulfur<br>Zinc<br>Visc@100°C<br>TBN<br>Sample Date<br>PQ<br>Iron   | 0.0           6.9           0.0           1189           10           4.7           1.0           264           2271           353           13.41           4.99           07/07/10              3.1   | 11<br>7.4<br>1149<br>4.1<br>5.1<br>0.6<br>268<br>2386<br>307<br>13.00<br><br>07/28/10<br><br>4.7   | 0.0<br>7.5<br>1.0<br>1272<br>4.5<br>3.9<br>0.7<br>2369<br>328<br>12.76<br><br>12/10/10<br>   | 15<br>6.4<br>0.0<br>1401<br>0.3<br>175<br>19<br>307<br>2174<br>353<br>12.62<br><br>Current<br><br>4.9                                    | 14.4<br>5.3<br>Abn                 |
| Oil Type: 36 QTS of The condition of oil   | of CHEVRON HI<br>l is suitable for fu | rther service.    |         | Sample Date<br>Potassium<br>Boron<br>Barium<br>Calcium<br>Magnesium<br>Molybdenum<br>Sodium<br>Phosphorus<br>Sulfur<br>Zinc<br>Visc@100°C<br>TBN<br>Sample Date<br>PQ<br>Iron<br>Nickel   | 0.0           6.9           0.0           1189           10           4.7           1.0           264           2271           353           13.41           4.99           07/07/10              3.1           0.0   | 11<br>7.4<br>1.4<br>1149<br>4.1<br>5.1<br>0.6<br>268<br>2386<br>307<br>13.00<br><br>07/28/10<br><br>4.7<br>0.2   | 0.0<br>7.5<br>1.0<br>1272<br>4.5<br>3.9<br>0.7<br>2369<br>328<br>12.76<br><br>12/10/10<br><br>5.7<br>0.3                             | 15<br>6.4<br>0.0<br>1401<br>0.3<br>175<br>19<br>307<br>2174<br>353<br>12.62<br><br>Current<br><br>4.9<br>0.3                             |                                    |
| Oil Type: 36 QTS of The condition of oil   | of CHEVRON HI<br>l is suitable for fu | rther service.    |         | Sample Date<br>Potassium<br>Boron<br>Barium<br>Calcium<br>Magnesium<br>Molybdenum<br>Sodium<br>Phosphorus<br>Sulfur<br>Zinc<br>Visc@100°C<br>TBN<br>Sample Date<br>PQ<br>Iron<br>Nickel<br>Chromium                                   | 0.0           6.9           0.0           1189           10           4.7           1.0           264           2271           353           13.41           4.99           07/07/10              3.1           0.0           0.0   | 11<br>7.4<br>1.4<br>1149<br>4.1<br>5.1<br>0.6<br>268<br>2386<br>307<br>13.00<br><br>07/28/10<br><br>4.7<br>0.2<br>0.2                                      | 0.0<br>7.5<br>1.0<br>1272<br>4.5<br>3.9<br>0.7<br>2369<br>328<br>12.76<br><br>12/10/10<br><br>5.7<br>0.3<br>0.1                      | 15<br>6.4<br>0.0<br>1401<br>0.3<br>175<br>19<br>307<br>2174<br>353<br>12.62<br><br>Current<br><br>4.9<br>0.3<br>1.0                      |                                    |
| Oil Type: 36 QTS of The condition of oil   | of CHEVRON HI<br>l is suitable for fu | rther service.    |         | Sample Date<br>Potassium<br>Boron<br>Barium<br>Calcium<br>Magnesium<br>Molybdenum<br>Sodium<br>Phosphorus<br>Sulfur<br>Zinc<br>Visc@100°C<br>TBN<br>Sample Date<br>PQ<br>Iron<br>Nickel<br>Chromium<br>Titanium                       | 0.0           6.9           0.0           1189           10           4.7           1.0           264           2271           353           13.41           4.99           07/07/10              3.1           0.0           0.0           0.0                             | 11<br>7.4<br>1.4<br>1149<br>4.1<br>5.1<br>0.6<br>268<br>2386<br>307<br>13.00<br><br>07/28/10<br><br>4.7<br>0.2<br>0.2<br>0.2<br>0.2<br>0.2                 | 0.0<br>7.5<br>1.0<br>1272<br>4.5<br>3.9<br>0.7<br>297<br>2369<br>328<br>12.76<br><br>12/10/10<br><br>5.7<br>0.3<br>0.1<br>0.9        | 15<br>6.4<br>0.0<br>1401<br>0.3<br>175<br>19<br>307<br>2174<br>353<br>12.62<br><br>Current<br><br>4.9<br>0.3<br>1.0<br>0.3               | 14.4<br>5.3<br>Abn<br><br><br>     |
| Oil Type: 36 QTS of The condition of oil   | of CHEVRON HI<br>l is suitable for fu | rther service.    |         | Sample Date<br>Potassium<br>Boron<br>Barium<br>Calcium<br>Magnesium<br>Molybdenum<br>Sodium<br>Phosphorus<br>Sulfur<br>Zinc<br>Visc@100°C<br>TBN<br>Sample Date<br>PQ<br>Iron<br>Nickel<br>Chromium<br>Titanium<br>Copper             | 0.0           6.9           0.0           1189           10           4.7           1.0           264           2271           353           13.41           4.99           07/07/10              3.1           0.0           0.0           0.0           2.1               | 11<br>7.4<br>1.4<br>1149<br>4.1<br>5.1<br>0.6<br>268<br>2386<br>307<br>13.00<br><br>07/28/10<br><br>07/28/10<br><br>4.7<br>0.2<br>0.2<br>0.2<br>0.6<br>3.6 | 0.0<br>7.5<br>1.0<br>1272<br>4.5<br>3.9<br>0.7<br>2369<br>328<br>12.76<br><br>12/10/10<br><br>5.7<br>0.3<br>0.1<br>0.9<br>1.8        | 15<br>6.4<br>0.0<br>1401<br>0.3<br>175<br>19<br>307<br>2174<br>353<br>12.62<br><br>Current<br><br>4.9<br>0.3<br>1.0<br>0.3<br>2.3        | 14.4<br>5.3<br>Abn<br><br><br>     |
| Oil Type: 36 QTS of The condition of oil   | of CHEVRON HI<br>l is suitable for fu | rther service.    |         | Sample Date<br>Potassium<br>Boron<br>Barium<br>Calcium<br>Magnesium<br>Molybdenum<br>Sodium<br>Phosphorus<br>Sulfur<br>Zinc<br>Visc@100°C<br>TBN<br>Sample Date<br>PQ<br>Iron<br>Nickel<br>Chromium<br>Titanium<br>Copper<br>Aluminum | 0.0           6.9           0.0           1189           10           4.7           1.0           264           2271           353           13.41           4.99           07/07/10              3.1           0.0           0.0           0.0           2.1           1.4 | 11<br>7.4<br>1149<br>4.1<br>5.1<br>0.6<br>268<br>2386<br>307<br>13.00<br><br>07/28/10<br><br>4.7<br>0.2<br>0.2<br>0.2<br>0.2<br>0.6<br>3.6<br>1.1          | 0.0<br>7.5<br>1.0<br>1272<br>4.5<br>3.9<br>0.7<br>2369<br>328<br>12.76<br><br>12/10/10<br><br>5.7<br>0.3<br>0.1<br>0.9<br>1.8<br>0.9 | 15<br>6.4<br>0.0<br>1401<br>0.3<br>175<br>19<br>307<br>2174<br>353<br>12.62<br><br>Current<br><br>4.9<br>0.3<br>1.0<br>0.3<br>2.3<br>4.3 | 14.4<br>5.3<br>Abn<br><br><br><br> |
| Oil Type: 36 QTS of The condition of oil   | of CHEVRON HI<br>l is suitable for fu | rther service.    |         | Sample Date<br>Potassium<br>Boron<br>Barium<br>Calcium<br>Magnesium<br>Molybdenum<br>Sodium<br>Phosphorus<br>Sulfur<br>Zinc<br>Visc@100°C<br>TBN<br>Sample Date<br>PQ<br>Iron<br>Nickel<br>Chromium<br>Titanium<br>Copper             | 0.0           6.9           0.0           1189           10           4.7           1.0           264           2271           353           13.41           4.99           07/07/10              3.1           0.0           0.0           0.0           2.1               | 11<br>7.4<br>1.4<br>1149<br>4.1<br>5.1<br>0.6<br>268<br>2386<br>307<br>13.00<br><br>07/28/10<br><br>07/28/10<br><br>4.7<br>0.2<br>0.2<br>0.2<br>0.6<br>3.6 | 0.0<br>7.5<br>1.0<br>1272<br>4.5<br>3.9<br>0.7<br>2369<br>328<br>12.76<br><br>12/10/10<br><br>5.7<br>0.3<br>0.1<br>0.9<br>1.8        | 15<br>6.4<br>0.0<br>1401<br>0.3<br>175<br>19<br>307<br>2174<br>353<br>12.62<br><br>Current<br><br>4.9<br>0.3<br>1.0<br>0.3<br>2.3        | 14.4<br>5.3<br>Abn<br><br><br>     |

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