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## KAESER AS 20T 6269981 (S/N 3813) Component Compressor

## KAESER SIGMA (OEM) M-460 (--- GAL)

| R | FC | OM | ME | ND. | ΔΤΙ | ON |  |
|---|----|----|----|-----|-----|----|--|
|   |    |    |    |     |     |    |  |

Resample at the next service interval to monitor.

All component wear rates are normal.

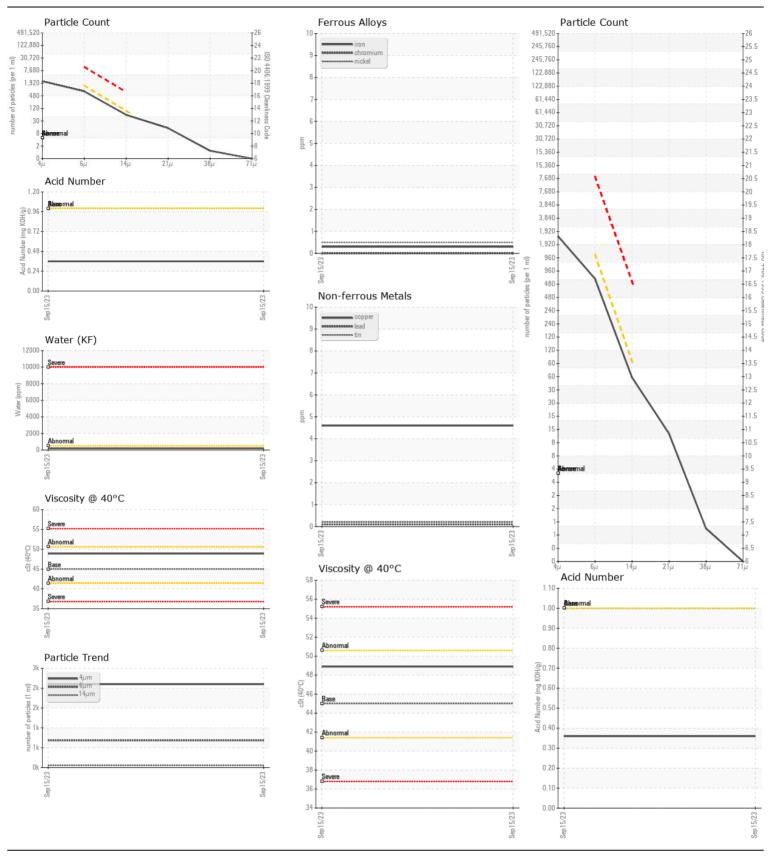
## CONTAMINATION

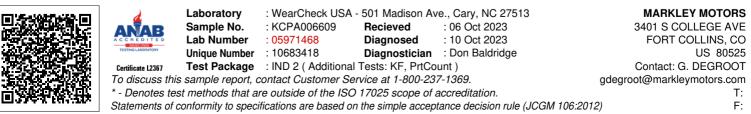
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

## FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

| Test     U/OM     Method     Limit/Ab     Current     History1     History2       Sample Number     Client Info     15 Sep 2023         Machine Age     hrs     Client Info     0         Machine Age     hrs     Client Info     0         Oil Age     hrs     Client Info     0         Oil Changed     Client Info     N/A         Sample Status     Client Info     N/A         Sample Status     Siver     ppm     ASTM D5185m     >50     <1         Inchromium     ppm     ASTM D5185m     >3      0         Aluminum     ppm     ASTM D5185m     >3     <0         Aluminum     ppm     ASTM D5185m     >10     <-1         Aluminum     ppm     ASTM D5185m     >50     5   | _                |        |              |           |          |          |          |
|--|------------------|--------|--------------|-----------|----------|----------|----------|
| Sample Date     Client Info     15 Sep 2023         Machine Age     hrs     Client Info     0         Oil Age     hrs     Client Info     0         Oil Changed     Client Info     0         Filter Changed     Client Info     N/A         Sample Status     Client Info     Changed         Sample Status     StM D5185m     >50     <1         Iron     ppm     ASTM D5185m     >10     0         Kickel     ppm     ASTM D5185m     >10     0         Lead     ppm     ASTM D5185m     >10     <1         Vanadium     ppm     ASTM D5185m     >10     <1         Vanadium     ppm     ASTM D5185m     >20          Vanadium     ppm     ASTM D5185m     >20     <  |                  | UOM    |              | Limit/Abn |          | History1 | History2 |
| Machine Age     hrs     Client Info     15228         Oil Age     hrs     Client Info     0         Filter Age     hrs     Client Info     N/A         Filter Changed     Client Info     N/A          Sample Status     Client Info     N/A          Iron     ppm     ASTM D5185m     >50     <1         Nickel     ppm     ASTM D5185m     >10     0         Silver     ppm     ASTM D5185m     >2     0         Copper     ppm     ASTM D5185m     >10     <1         Vanadium     ppm     ASTM D5185m     >10     <1         Vanadium     ppm     ASTM D5185m     >10     <1         Vanadium     ppm     ASTM D5185m     >20     2 <tr< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th></tr<>   |                  |        |              |           |          |          |          |
| Oil Age     hrs     Client Info     0         Filter Age     hrs     Client Info     N/A         Oil Changed     Client Info     N/A         Sample Status     Client Info     N/A         Iron     ppm     ASTM D5185m     >50     <1         Chromium     ppm     ASTM D5185m     >3     <1         Nickel     ppm     ASTM D5185m     >3     <1         Aluminum     ppm     ASTM D5185m     >3     0         Silver     ppm     ASTM D5185m     >10     <1         Auminum     ppm     ASTM D5185m     >10     <1         Auminum     ppm     ASTM D5185m     >50     5         Vanadium     ppm     ASTM D5185m     >20     <1         Vellow Metal </th <th></th> <th></th> <th></th> <th></th> <th>· ·</th> <th></th> <th></th>                               |                  |        |              |           | · ·      |          |          |
| Filter Age     hrs     Client Info     0         Oil Changed     Client Info     N/A         Filter Changed     Client Info     Changed         Sample Status     Client Info     Changed         Iron     ppm     ASTM 05185m     >50     <1         Chromium     ppm     ASTM 05185m     >3     <1         Nickel     ppm     ASTM 05185m     >10     0         Aluminum     ppm     ASTM 05185m     >10     0         Copper     ppm     ASTM 05185m     >10     0         Vanadium     ppm     ASTM 05185m     >10     0         Vanadium     ppm     ASTM 05185m     >20     2         Vanadium     ppm     ASTM 05185m     >20     2         Vellow Metal  | •                |        |              |           |          |          |          |
| Oil Changed     Client Info     N/A         Filter Changed     Client Info     Changed         Sample Status     NORMAL         Iron     ppm     ASTM D5185m     >50     <1        Normium     ppm     ASTM D5185m     >3     <1        Nickel     ppm     ASTM D5185m     >3     0        Nickel     ppm     ASTM D5185m     >3     0        Silver     ppm     ASTM D5185m     >10     0         Copper     ppm     ASTM D5185m     >10     <1         Vanadium     ppm     ASTM D5185m     >0     <1         Vanadium     ppm     ASTM D5185m     >20     2         Vanadium     ppm     ASTM D5185m     >20     2         Vallow Metal     scalar     *Visual     NONE      <  | 0                | hrs    |              |           | -        |          |          |
| Filter Changed<br>Sample Status     Client Info     Changed<br>NORMAL         Iron     ppm     ASTM D5185m     >50     <1         Iron     ppm     ASTM D5185m     >3     <1         Nickel     ppm     ASTM D5185m     >3     <1         Nickel     ppm     ASTM D5185m     >3     0         Aluminum     ppm     ASTM D5185m     >10     0         Aluminum     ppm     ASTM D5185m     >10     <1         Astm D5185m     >10     <1          Vanadium     ppm     ASTM D5185m     >10     <1         Vanadium     ppm     ASTM D5185m     >20     2         Vanadium     ppm     ASTM D5185m     >20     2         Vanadium     ppm     ASTM D5185m     >20     2    <   | 0                | hrs    | Client Info  |           | -        |          |          |
| Sample Status     NORMAL         Iron     ppm     ASTM D5185m     >50     <1         Chromium     ppm     ASTM D5185m     >10     0         Nickel     ppm     ASTM D5185m     >3     <1         Nickel     ppm     ASTM D5185m     >2     0         Aluminum     ppm     ASTM D5185m     >10     0         Lead     ppm     ASTM D5185m     >10     <1         Vanadium     ppm     ASTM D5185m     >10     <1         Vanadium     ppm     ASTM D5185m     >10     0         Vanadium     ppm     ASTM D5185m     >20     2         Vanadium     ppm     ASTM D5185m     >20     2         Vanadium     ppm     ASTM D5185m     >20     2  | •                |        | Client Info  |           | N/A      |          |          |
| Iron     ppm     ASTM D5185m     >50     <1  | Filter Changed   |        | Client Info  |           | Changed  |          |          |
| Chromium     ppm     ASTM D5185m     >10     0         Nickel     ppm     ASTM D5185m     >3     <1         Silver     ppm     ASTM D5185m     >2     0         Aluminum     ppm     ASTM D5185m     >10     0         Lead     ppm     ASTM D5185m     >10     <1         Vanadium     ppm     ASTM D5185m     >10     <1         Vanadium     ppm     ASTM D5185m     >50     5         Vanadium     ppm     ASTM D5185m     >20     2         Vanadium     ppm     ASTM D5185m     >20     2         Vellow Metal     scalar     *Visual     NONE         Vatar     %     ASTM D5185m     >20     2         Particles Setym     ASTM D6185m     >20   | Sample Status    |        |              | NORMAL    |          |          |          |
| Chromium     ppm     ASTM D5185m     >10     0         Nickel     ppm     ASTM D5185m     >3     <1         Silver     ppm     ASTM D5185m     >2     0         Aluminum     ppm     ASTM D5185m     >10     0         Lead     ppm     ASTM D5185m     >10     <1         Vanadium     ppm     ASTM D5185m     >10     <1         Vanadium     ppm     ASTM D5185m     >50     5         Vanadium     ppm     ASTM D5185m     >20     2         Vanadium     ppm     ASTM D5185m     >20     2         Vellow Metal     scalar     *Visual     NONE         Vatar     %     ASTM D5185m     >20     2         Particles Setym     ASTM D6185m     >20   |                  |        |              |           | 4        |          |          |
| Nickel     ppm     ASTM D5185m     >3     <1   |                  |        |              |           |          |          |          |
| Titanium     ppm     ASTM D5185m     >3     0         Silver     ppm     ASTM D5185m     >2     0         Aluminum     ppm     ASTM D5185m     >10     0         Copper     ppm     ASTM D5185m     >10     <1         Vanadium     ppm     ASTM D5185m     >10     <1         Vanadium     ppm     ASTM D5185m     >10     <1         Vanadium     ppm     ASTM D5185m     >0          Vanadium     ppm     ASTM D5185m     >20     2         Vellow Metal     scalar     *Visual     NONE          Vater     %     ASTM D6304     >0.05     0.020         Particles >4µm     ASTM D7647     >10     687         Particles >4µm     ASTM D7647     >3   |                  |        |              | -         | -        |          |          |
| Silver     ppm     ASTM D5185m     >2     0         Aluminum     ppm     ASTM D5185m     >10     0         Lead     ppm     ASTM D5185m     >10     <1         Copper     ppm     ASTM D5185m     >10     <1         Vanadium     ppm     ASTM D5185m     >10     <1         Vanadium     ppm     ASTM D5185m     >10     <1         Vanadium     ppm     ASTM D5185m     >0     NONE         Vanadium     ppm     ASTM D5185m     >20     2         Vellow Metal     scalar     *Visual     NONE         Vater     %     ASTM D6304     >0.05     0.020         Particles >4µm     ASTM D7647     >20     12         Particles >4µm     ASTM D7647     >3     0   |                  |        |              |           |          |          |          |
| Aluminum     ppm     ASTM D5185m     >10     C         Lead     ppm     ASTM D5185m     >10     <1         Copper     ppm     ASTM D5185m     >50     5         Vanadium     ppm     ASTM D5185m     >10     <1         Vanadium     ppm     ASTM D5185m     >10     <1         Vanadium     ppm     ASTM D5185m     >10     <1         Vanadium     ppm     ASTM D5185m     >25     <1         Valacr     scalar     *Visual     NONE     NONE         Potassium     ppm     ASTM D5185m     >20     2     1         Vater     %     ASTM D6185m     >20     2098         Particles >4µm     ASTM D7647     >20     12         Particles >1µm     ASTM D7647  |                  |        |              | -         | -        |          |          |
| Lead     ppm     ASTM D5185m     >10     <1  |                  |        |              |           | -        |          |          |
| Copper     ppm     ASTM D5185m     >50     5         Tin     ppm     ASTM D5185m     >10     <1         Vanadium     ppm     ASTM D5185m     0         White Metal     scalar     *Visual     NONE     NONE         Yellow Metal     scalar     *Visual     NONE     NONE         Silicon     ppm     ASTM D5185m     >20     2         Vater     %     ASTM D5185m     >20     2         Particles >4µm     ASTM D7647     2098          Particles >4µm     ASTM D7647     >1300     687         Particles >14µm     ASTM D7647     >4     1         Particles >21µm     ASTM D7647     >3     0         Particles >21µm     ASTM D7647     3     0   |                  | ppm    |              |           | -        |          |          |
| In     ppm     ASTM D5185m     >10     <1  |                  | ppm    |              |           |          |          |          |
| Vanadium     ppm     ASTM D5185m     0         White Metal     scalar     *Visual     NONE         Yellow Metal     scalar     *Visual     NONE         Silicon     ppm     ASTM D5185m     >25     <1         Potassium     ppm     ASTM D5185m     >20     2         Potassium     ppm     ASTM D5185m     >20     2         Patticles >4µm     ASTM D6304     >500     207.1         Particles >6µm     ASTM D7647     2098         Particles >6µm     ASTM D7647     >80     52         Particles >71µm     ASTM D7647     >4     1         Particles >71µm     ASTM D7647     >3     0         Silt     scalar     *Visual     NONE     NONE         Appearance   | Copper           | ppm    | ASTM D5185m  |           | -        |          |          |
| White Metal     scalar     *Visual     NONE         Yellow Metal     scalar     *Visual     NONE         Silicon     ppm     ASTM D5185m     >25     <1         Potassium     ppm     ASTM D5185m     >20     2         Water     %     ASTM D5185m     >20     20         pm Water     ppm     ASTM D6304     >0.05     0.020         Particles >4µm     ASTM D7647     2098     20         Particles >6µm     ASTM D7647     >80     52         Particles >14µm     ASTM D7647     >4     1         Particles >71µm     ASTM D7647     >3     0         Silt     scalar     *Visual     NONE     NONE         Silt     scalar     *Visual     NOR     NORE   |                  | ppm    |              | >10       |          |          |          |
| Yellow Metal     scalar     *Visual     NONE         Silicon     ppm     ASTM D5185m     >20     2         Potassium     ppm     ASTM D5185m     >20     2         Water     %     ASTM D6304     >0.05     0.020         ppm Water     ppm     ASTM D6304     >500     207.1         Particles >4µm     ASTM D7647     2098          Particles >51µm     ASTM D7647     >80     52         Particles >21µm     ASTM D7647     >20     12         Particles >31µm     ASTM D7647     >3     0         Particles >71µm     ASTM D7647     >3     0         Silt     scalar     *Visual     NONE     NONE         Solt Cleanliness     scalar     *Visual     NONE     NONE  |                  | ppm    | ASTM D5185m  |           | 0        |          |          |
| Silicon     ppm     ASTM D5185m     >25     <1   |                  | scalar |              |           | -        |          |          |
| Potassium     ppm     ASTM D5185m     >20     2         Water     %     ASTM D6304     >0.05     0.020         ppm Water     ppm     ASTM D6304     >500     207.1         Particles >4µm     ASTM D7647     >1300     687         Particles >6µm     ASTM D7647     >80     52         Particles >14µm     ASTM D7647     >20     12         Particles >38µm     ASTM D7647     >4     1         Particles >71µm     ASTM D7647     >3     0         Oil Cleanliness     ISO 4406 (c)     >-/17/13     18/17/13         Silt     scalar     *Visual     NONE          Soldor     scalar     *Visual     NONE          Qoor     scalar     *Visual     NORML     NORML   | Yellow Metal     | scalar | *Visual      | NONE      | NONE     |          |          |
| Potassium     ppm     ASTM D5185m     >20     2         Water     %     ASTM D6304     >0.05     0.020         ppm Water     ppm     ASTM D6304     >500     207.1         Particles >4µm     ASTM D7647     >1300     687         Particles >6µm     ASTM D7647     >80     52         Particles >14µm     ASTM D7647     >20     12         Particles >38µm     ASTM D7647     >4     1         Particles >71µm     ASTM D7647     >3     0         Oil Cleanliness     ISO 4406 (c)     >-/17/13     18/17/13         Silt     scalar     *Visual     NONE          Soldor     scalar     *Visual     NONE          Qoor     scalar     *Visual     NORML     NORML   |                  |        |              |           |          |          |          |
| Water     %     ASTM D6304     >0.05     0.020         ppm Water     ppm     ASTM D6304     >500     207.1         Particles >4µm     ASTM D7647     >1300     687         Particles >6µm     ASTM D7647     >80     52         Particles >14µm     ASTM D7647     >20     12         Particles >38µm     ASTM D7647     >4     1         Particles >38µm     ASTM D7647     >4     1         Particles >38µm     ASTM D7647     >3     0         Oil Cleanliness     ISO 4406 (c)     >-/17/13     18/17/13         Silt     scalar     *Visual     NONE          Qor     scalar     *Visual     NORM     NORML         Qdor     scalar     *Visual     NORML     NORML   |                  |        |              |           |          |          |          |
| ppm Water     ppm     ASTM D6304     >500     207.1         Particles >4µm     ASTM D7647     >1300     687         Particles >6µm     ASTM D7647     >80     52         Particles >14µm     ASTM D7647     >20     12         Particles >38µm     ASTM D7647     >4     1         Particles >38µm     ASTM D7647     >4     1         Particles >38µm     ASTM D7647     >3     0         Particles >71µm     ASTM D7647     >3     0         Oil Cleanliness     ISO 4406 (c)     >-/17/13     18/17/13         Silt     scalar     *Visual     NONE     NONE         Soldy     scalar     *Visual     NORM     NORML         Appearance     scalar     *Visual     NORM     NORM <th></th> <th></th> <th></th> <th>-</th> <th>_</th> <th></th> <th></th>          |                  |        |              | -         | _        |          |          |
| Particles >4μm     ASTM D7647     2098        Particles >6μm     ASTM D7647     >1300     687        Particles >6μm     ASTM D7647     >80     52        Particles >14µm     ASTM D7647     >20     12        Particles >21µm     ASTM D7647     >20     12        Particles >38µm     ASTM D7647     >4     1        Particles >38µm     ASTM D7647     >3     0        Particles >38µm     ASTM D7647     >3     0        Particles >38µm     ASTM D7647     >3     0        Particles >51µm     ASTM D7647     >3     0        Oil Cleanliness     ISO 4406 (c)     >-/17/13     18/17/13        Silt     scalar     *Visual     NONE         Sodium     scalar     *Visual     NORML     NORML         Sodium     ppm     ASTM D5185     0     0                 |                  | %      |              |           |          |          |          |
| Particles >6µm     ASTM D7647     >1300     687         Particles >14µm     ASTM D7647     >80     52         Particles >21µm     ASTM D7647     >20     12         Particles >38µm     ASTM D7647     >4     1         Particles >71µm     ASTM D7647     >4     1         Oil Cleanliness     ISO 4406 (c)     >-/17/13     18/17/13         Silt     scalar     *Visual     NONE     NONE         Sand/Dirt     scalar     *Visual     NONE     NONE         Sand/Dirt     scalar     *Visual     NORM     NORML         Odor     scalar     *Visual     NORM     NORML         Odor     scalar     *Visual     NORML     NORML         Boron     ppm     ASTM D5185m     0     0 <th></th> <th>ppm</th> <th></th> <th>&gt;500</th> <th></th> <th></th> <th></th> |                  | ppm    |              | >500      |          |          |          |
| Particles >14µm     ASTM D7647     >80     52         Particles >21µm     ASTM D7647     >20     12         Particles >38µm     ASTM D7647     >4     1         Particles >71µm     ASTM D7647     >3     0         Oil Cleanliness     ISO 4406 (c)     >-/17/13     18/17/13         Silt     scalar     *Visual     NONE     NONE         Sodu/Dirt     scalar     *Visual     NONE     NONE         Sand/Dirt     scalar     *Visual     NORE     NONE         Sodum     scalar     *Visual     NORM     NORML         Odor     scalar     *Visual     NORM     NORML         Gdor     scalar     *Visual     NORM     NORML         Sodium     ppm     ASTM D5185m     0     0  |                  |        |              |           |          |          |          |
| Particles >21 µm     ASTM D7647     >20     12         Particles >38µm     ASTM D7647     >4     1         Particles >71µm     ASTM D7647     >3     0         Oil Cleanliness     ISO 4406 (c)     >-/17/13     18/17/13         Silt     scalar     *Visual     NONE     NONE         Debris     scalar     *Visual     NONE     NONE         Sand/Dirt     scalar     *Visual     NONE     NONE         Appearance     scalar     *Visual     NORM     NORML         Odor     scalar     *Visual     NORM     NORML         Godor     scalar     *Visual     NORM     NORML         Sodium     ppm     ASTM D5185m     0     0         Boron     ppm     ASTM D5185m     0     0  |                  |        |              |           |          |          |          |
| Particles >38µm     ASTM D7647     >4     1         Particles >71µm     ASTM D7647     >3     0         Oil Cleanliness     ISO 4406 (c)     >-/17/13     18/17/13         Silt     scalar     *Visual     NONE     NONE         Debris     scalar     *Visual     NONE     NONE         Sand/Dirt     scalar     *Visual     NONE     NONE         Appearance     scalar     *Visual     NORML     NORML         Odor     scalar     *Visual     NORM     NORML         Odor     scalar     *Visual     NORM     NORML         Sodium     ppm     ASTM D5185m     0     0         Boron     ppm     ASTM D5185m     0     0         Marganese     ppm     ASTM D5185m     0   |                  |        |              |           |          |          |          |
| Particles >71µm     ASTM D7647     >3     0         Oil Cleanliness     ISO 4406 (c)     >-/17/13     18/17/13         Silt     scalar     *Visual     NONE     NONE         Debris     scalar     *Visual     NONE     NONE         Sand/Dirt     scalar     *Visual     NONE     NONE         Appearance     scalar     *Visual     NORML     NORML         Odor     scalar     *Visual     NORML     NORML         Odor     scalar     *Visual     NORML     NORML         Odor     scalar     *Visual     >0.05     NEG         Sodium     ppm     ASTM D5185m     0     0         Boron     ppm     ASTM D5185m     0     0         Malybdenum     ppm     ASTM D5185m  |                  |        |              |           |          |          |          |
| Oil Cleanliness     ISO 4406 (c)     >-/17/13     18/17/13         Silt     scalar     *Visual     NONE     NONE         Debris     scalar     *Visual     NONE     NONE         Sand/Dirt     scalar     *Visual     NONE     NONE         Appearance     scalar     *Visual     NORML     NORML         Odor     scalar     *Visual     NORML     NORML         Odor     scalar     *Visual     NORML     NORML         Odor     scalar     *Visual     NORML     NORML         Cdor     scalar     *Visual     >0.05     NEG         Sodium     ppm     ASTM D5185m     0     0         Boron     ppm     ASTM D5185m     0     0    >Malganese     ppm     ASTM D5185m <th></th> <th></th> <th></th> <th></th> <th>-</th> <th></th> <th></th>                    |                  |        |              |           | -        |          |          |
| Siltscalar*VisualNONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLCodorscalar*Visual>0.05NEGSodiumppmASTM D5185m00BoronppmASTM D5185m00BariumppmASTM D5185m00ManganeseppmASTM D5185m10031MagnesiumppmASTM D5185m01PhosphorusppmASTM D5185m021976SulfurppmASTM D5185m1.00.36  |                  |        |              | -         | -        |          |          |
| Debrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLCodorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.05NEGSodiumppmASTM D5185m12BoronppmASTM D5185m00BariumppmASTM D5185m00MolybdenumppmASTM D5185m00MagnesiumppmASTM D5185m10031PhosphorusppmASTM D5185m01ZincppmASTM D5185m09SulfurppmASTM D5185m021976Acid Number (AN)mg KOH/gASTM D80451.00.36   |                  |        | ISO 4406 (c) |           | 18/17/13 |          |          |
| Sand/Dirtscalar*VisualNONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.05NEGSodiumppmASTM D5185m00BoronppmASTM D5185m00BariumppmASTM D5185m00MolybdenumppmASTM D5185m00MaganeseppmASTM D5185m10031CalciumppmASTM D5185m01PhosphorusppmASTM D5185m09ZincppmASTM D5185m09SulfurppmASTM D5185m2350021976Acid Number (AN)mg KOH/gASTM D80451.00.36  | Silt             |        |              |           | NONE     |          |          |
| Appearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.05NEGSodiumppmASTM D5185m12BoronppmASTM D5185m00BariumppmASTM D5185m9022MolybdenumppmASTM D5185m00ManganeseppmASTM D5185m10031MagnesiumppmASTM D5185m01PhosphorusppmASTM D5185m09ZincppmASTM D5185m09SulfurppmASTM D5185m2350021976Acid Number (AN)mg KOH/gASTM D80451.00.36   |                  |        |              |           | -        |          |          |
| Odorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.05NEGSodiumppmASTM D5185m12BoronppmASTM D5185m00BariumppmASTM D5185m9022MolybdenumppmASTM D5185m00MagnaeseppmASTM D5185m10031MagnesiumppmASTM D5185m01PhosphorusppmASTM D5185m01ZincppmASTM D5185m09SulfurppmASTM D5185m2350021976Acid Number (AN)mg KOH/gASTM D80451.00.36   |                  |        |              |           |          |          |          |
| Emulsified Water     scalar     *Visual     >0.05     NEG        Sodium     ppm     ASTM D5185m     0     0         Boron     ppm     ASTM D5185m     0     0         Barium     ppm     ASTM D5185m     90     22         Molybdenum     ppm     ASTM D5185m     0     0         Manganese     ppm     ASTM D5185m     0     0         Magnesium     ppm     ASTM D5185m     100     31         Phosphorus     ppm     ASTM D5185m     0     1         Zinc     ppm     ASTM D5185m     0     <1         Sulfur     ppm     ASTM D5185m     0     <1         Zinc     ppm     ASTM D5185m     0     9         Sulfur     ppm     ASTM D5185m     23500  |                  |        |              |           |          |          |          |
| Sodium     ppm     ASTM D5185m     12        Boron     ppm     ASTM D5185m     0     0        Barium     ppm     ASTM D5185m     90     22         Barium     ppm     ASTM D5185m     90     22         Molybdenum     ppm     ASTM D5185m     0     0         Manganese     ppm     ASTM D5185m     0     0         Magnesium     ppm     ASTM D5185m     100     31         Calcium     ppm     ASTM D5185m     0     1         Phosphorus     ppm     ASTM D5185m     0     <1         Zinc     ppm     ASTM D5185m     0     <1         Sulfur     ppm     ASTM D5185m     0     9         Acid Number (AN)     mg KOH/g     ASTM D8045     1.0     0.36 <th></th> <th></th> <th></th> <th></th> <th>-</th> <th></th> <th></th>                                  |                  |        |              |           | -        |          |          |
| Boron     ppm     ASTM D5185m     0     0         Barium     ppm     ASTM D5185m     90     22         Molybdenum     ppm     ASTM D5185m     0     0         Manganese     ppm     ASTM D5185m     0     0         Magnesium     ppm     ASTM D5185m     100     31         Calcium     ppm     ASTM D5185m     0     1         Phosphorus     ppm     ASTM D5185m     0     <1         Zinc     ppm     ASTM D5185m     0     <1         Sulfur     ppm     ASTM D5185m     0     9         Acid Number (AN)     mg KOH/g     ASTM D8045     1.0     0.36  | Emulsified Water | scalar | *Visual      | >0.05     | NEG      |          |          |
| Boron     ppm     ASTM D5185m     0     0         Barium     ppm     ASTM D5185m     90     22         Molybdenum     ppm     ASTM D5185m     0     0         Manganese     ppm     ASTM D5185m     0     0         Magnesium     ppm     ASTM D5185m     100     31         Calcium     ppm     ASTM D5185m     0     1         Phosphorus     ppm     ASTM D5185m     0     <1         Zinc     ppm     ASTM D5185m     0     <1         Sulfur     ppm     ASTM D5185m     0     9         Acid Number (AN)     mg KOH/g     ASTM D8045     1.0     0.36  | Sodium           | 0000   |              |           | 10       |          |          |
| Barium     ppm     ASTM D5185m     90     22         Molybdenum     ppm     ASTM D5185m     0     0         Manganese     ppm     ASTM D5185m     0     0         Magnesium     ppm     ASTM D5185m     100     31         Calcium     ppm     ASTM D5185m     0     1         Phosphorus     ppm     ASTM D5185m     0     <1         Zinc     ppm     ASTM D5185m     0     <1         Sulfur     ppm     ASTM D5185m     0     <1         Acid Number (AN)     mg KOH/g     ASTM D5185m     23500     21976   |                  |        |              | 0         |          |          |          |
| Molybdenum     ppm     ASTM D5185m     0     0         Manganese     ppm     ASTM D5185m     0          Magnesium     ppm     ASTM D5185m     100     31         Calcium     ppm     ASTM D5185m     0     1         Phosphorus     ppm     ASTM D5185m     0     <1         Zinc     ppm     ASTM D5185m     0     9         Sulfur     ppm     ASTM D5185m     0     21976         Acid Number (AN)     mg KOH/g     ASTM D8045     1.0     0.36   |                  |        |              |           |          |          |          |
| Manganese     ppm     ASTM D5185m     0         Magnesium     ppm     ASTM D5185m     100     31         Calcium     ppm     ASTM D5185m     0     1         Phosphorus     ppm     ASTM D5185m     0     <1   |                  |        |              |           |          |          |          |
| Magnesium     ppm     ASTM D5185m     100     31         Calcium     ppm     ASTM D5185m     0     1         Phosphorus     ppm     ASTM D5185m     0     <1         Zinc     ppm     ASTM D5185m     0     <1         Sulfur     ppm     ASTM D5185m     0     9         Acid Number (AN)     mg KOH/g     ASTM D8045     1.0     0.36  | -                |        |              | 0         |          |          |          |
| Calcium     ppm     ASTM D5185m     0     1         Phosphorus     ppm     ASTM D5185m     0     <1  | -                |        |              | 100       |          |          |          |
| Phosphorus     ppm     ASTM D5185m     0     <1  | 0                |        |              |           |          |          |          |
| Zinc     ppm     ASTM D5185m     0     9         Sulfur     ppm     ASTM D5185m     23500     21976         Acid Number (AN)     mg KOH/g     ASTM D8045     1.0     0.36  |                  |        |              |           |          |          |          |
| Sulfur     ppm     ASTM D5185m     23500     21976         Acid Number (AN)     mg KOH/g     ASTM D8045     1.0     0.36   |                  |        |              |           |          |          |          |
| Acid Number (AN) mg KOH/g ASTM D8045 1.0 0.36  |                  |        |              |           | -        |          |          |
|  |                  |        |              |           |          |          |          |
| Visc @ 40°C cSt ASTM D445 45 48.9  | ( )              |        |              |           |          |          |          |
|  | Vísc @ 40°C      | cSt    | ASTM D445    | 45        | 48.9     |          |          |





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