## OLL ANALYSIS REPORT

## KNEELAND C4980 VOLVO PENTA KNEELAND (S/N NOT GIVEN) -GENSET

Sample No: VPA044028<br>Oil Type: DIESEL ENGINE OIL SAE 30

## SAMPLE IV:OOMATION

| Sample Number | VPA044028 |
| :--- | :--- |
| Sample Date | $\mathbf{2 3}$ Jul 2023 |
| Machine Hours | $\mathbf{0}$ |
| Oil Hours | $\mathbf{0}$ |
| Oil Changed | N/A |
| Sample Status | NORMAL |


| OLL CONDIIION |  |  |
| :--- | :--- | :--- |
| Visc @ $100^{\circ} \mathrm{C}$ | cSt | $\square \mathbf{1 2 . 5}$ |
| Base Number (BN) | $\mathrm{mg} \mathrm{KOH} / \mathrm{g}$ | $\square \mathbf{9 . 7}$ |
| Oxidation (PA) | $\%$ | $\mathbf{5 3}$ |


| COIITAMINATION |  |  |
| :--- | :--- | :---: |
| Soot $\%$ | $\%$ | $\square \mathbf{0 . 1}$ |
| Nitration (PA) | $\%$ | $\mathbf{4 3}$ |
| Sulfation (PA) | $\%$ | $\mathbf{4 8}$ |
| Glycol | $\%$ | NEG |
| Fuel | $\%$ | $<\mathbf{1 . 0}$ |
| Silicon | ppm | $\square \mathbf{4}$ |
| Sodium | ppm | $\square \mathbf{3}$ |
| Potassium | ppm | $\square<\mathbf{1}$ |

WEARMEALS

| Iron | ppm | $\square 5$ | --- | -- | --- |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Copper | ppm | $\square<1$ | --- | --- | --- |
| Lead | ppm | $\square 0$ | --- | -- | --- |
| Tin | ppm | $\square<1$ | -- | -- | --- |
| Aluminum | ppm | $\square<1$ | - | -- | - |
| Chromium | ppm | $\square<1$ | - | -- | --- |
| Molybdenum | ppm | $\square 62$ | --- | --- | --- |
| Nickel | ppm | $\square 0$ | --- | -- | --- |
| Titanium | ppm | $\square<1$ | --- | --- | -- |
| Silver | ppm | $\square 0$ | -- | -- | --- |
| Manganese | ppm | $\square<1$ | --- | --- | --- |
| Vanadium | ppm | 0 | -- | --- | --- |
| ADIIIVES |  |  |  |  |  |
| Calcium | ppm | $\square 1108$ | --- | -- | -- |
| Magnesium | ppm | $\square 1004$ | --- | --- | --- |
| Zinc | ppm | $\square 1323$ | --- | --- | --- |
| Phosphorus | ppm | $\square 1104$ | -- | -- | - |
| Barium | ppm | $\square 0$ | --- | --- | --- |
| Boron | ppm | $\square 4$ | --- | --- | --- |


| Depot: | VP154879 |
| :--- | :--- |
| Unique No: | 10566674 |
| Signed: | Sean Felton |
| Report Date: | 25 Jul 2023 |

## OIL ANAIYSIS REPORT

## GRAPHS



Copper (ppm)


Viscosity @ $100^{\circ} \mathrm{C}$



Chromium (ppm)


Silicon (ppm)


Base Number


