

WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

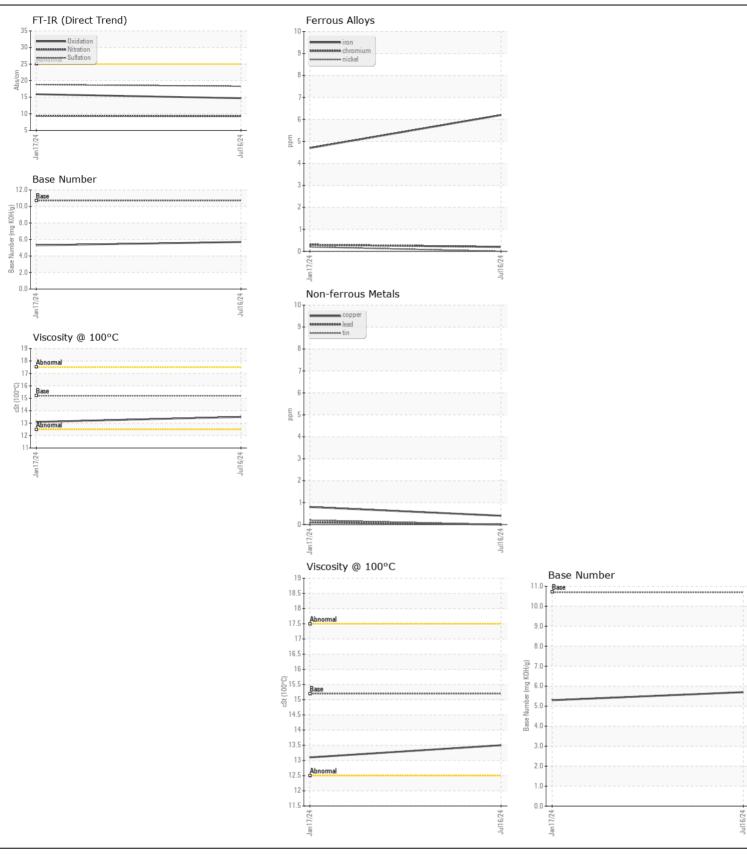


## MACK 429116-SW4910 Component Prince I Engine

Diesel Engine

MOBIL DELVAC ELITE 15W40 (--- GAL)

| Test   UOM   Method   Limit/Abn   Current   History1   GFL00195447     To Jan 2024     To Jan 2024   To Jan 2024     To Jan 2024   |
|--|
| Sample Date   Client Info   16 Jul 2024   17 Jan 2024  |
| Machine Age   hrs   Client Info   11240   10444       Oil Age   hrs   Client Info   796   500       Filter Age   hrs   Client Info   0   500       Oil Changed   Client Info   Changed   Changed       Filter Changed   Client Info   Changed   Changed       Filter Changed   Client Info   Changed   Changed       Sample Status   NORMAL   NORMAL       Mickel   ppm   ASTM D5185m   >20   <1   <1       Nickel   ppm   ASTM D5185m   >2   0   <1       Silver   ppm   ASTM D5185m   >2   0   0       Aluminum   ppm   ASTM D5185m   >2   0   0   |
| Oil Age   hrs   Client Info   796   500       Filter Age   hrs   Client Info   0   500       Oil Changed   Client Info   Changed   Chang         |
| Filter Age   hrs   Client Info   O   500       Oil Changed   Client Info   Changed   Changed   Changed       Filter Changed   Client Info   Changed   Changed       Filter Changed   Client Info   Changed   Changed       Sample Status   NORMAL   NORMAL       NORMAL   NORMAL       Normal   Norm                         |
| Oil Changed   Client Info   Changed   Change |
| Filter Changed   Sample Status   Sample Status   NORMAL   NORMAL |
| NORMAL   N |
| Iron   ppm   ASTM D5185m   >120   6   5  |
| All component wear rates are normal.    Chromium   ppm   ASTM D5185m   >20   <1   <1   |
| All component wear rates are normal.    Nickel   ppm   ASTM D5185m   >5   0   <1       Titanium   ppm   ASTM D5185m   >2   0   <1       Silver   ppm   ASTM D5185m   >2   0   0       Aluminum   ppm   ASTM D5185m   >20   4   2   |
| Titanium   ppm   ASTM D5185m   >2   0   <1       Silver   ppm   ASTM D5185m   >2   0   0       Aluminum   ppm   ASTM D5185m   >2   4   2   |
| Silver         ppm         ASTM D5185m         >2         0         0            Aluminum         ppm         ASTM D5185m         >20         4         2  |
| Aluminum         ppm         ASTM D5185m         >20         4         2   |
|  |
| <b>Lead</b> ppm ASTM D5185m >40   <b>0</b>   <1  |
|  |
| Copper         ppm         ASTM D5185m         >330         <1   |
| Tin         ppm         ASTM D5185m         >15         0         <1   |
| VanadiumppmASTM D5185m00   |
| White Metal scalar *Visual NONE NONE NONE  |
| Yellow Metal scalar *Visual NONE NONE  |
| CONTAMINATION Silicon ppm ASTM D5185m >25 5 5  |
| Potassium   ppm   ASTM D5185m   >20   3   2  |
| There is no indication of any contamination in the oil.  Fuel  WC Method >3.0 <1.0 <-1.0   |
| Water WC Method >0.2 NEG NEG   |
| Glycol WC Method NEG NEG   |
| Soot %   |
| Nitration Abs/cm *ASTM D7624 >20 <b>9.3</b> 9.4  |
| Sulfation  |
| Silt scalar *Visual NONE NONE NONE   |
| Debris scalar *Visual NONE NONE  |
| Sand/Dirt scalar *Visual NONE NONE   |
| Appearance scalar *Visual NORML NORML NORML  |
| Odor scalar *Visual NORML NORML NORML  |
| Emulsified Water scalar *Visual >0.2 <b>NEG</b> NEG  |
|  |
| FLUID CONDITION Sodium ppm ASTM D5185m 3 0   |
| The BN result indicates that there is suitable alkalinity remaining in the   |
| oil The condition of the oil is suitable for further service   |
| Molybdenum ppm ASIM D5185m 123 128   |
| Manganese ppm ASTM D5185m 0 0  |
| Magnesium         ppm         ASTM D5185m         634         641            Colsium         ASTM D5185m         1400          1400  |
| Calcium         ppm         ASTM D5185m         1265         1190  |
| Phosphorus         ppm         ASTM D5185m         696         707            Zine         ASTM D5185m         820         916   |
| Zinc ppm ASTM D5185m <b>839</b> 816  |
| Sulfur         ppm         ASTM D5185m         3026         3274   |
| Oxidation Abs/.1mm *ASTM D7414 > 25 <b>14.7</b> 15.9   |
| Base Number (BN)   mg KOH/g   ASTM D2896   10.7   5.7   5.3       Visc @ 100°C   cSt   ASTM D445   15.2   13.5   13.1  |
| Visc @ 100°C cSt ASTM D445 15.2 13.5 13.1  |





Certificate L2367

Laboratory Sample No.

: GFL0111286 Lab Number : 06241412 Unique Number : 11130246 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 19 Jul 2024 **Tested** 

: 20 Jul 2024 Diagnosed : 20 Jul 2024 - Wes Davis

GFL Environmental - 981 - Port Arthur Hauling

1000 S Business Park Dr Port Arthur, TX US 77640

Contact: MICHAEL KAY mkay@gflenv.com

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To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)