

GFL216

Diesel Engine

CASTROL TECTION EXTRA SAE 15W-40 (40 LTR)

5547

Area

Wear

OIL ANALYSIS REPORT

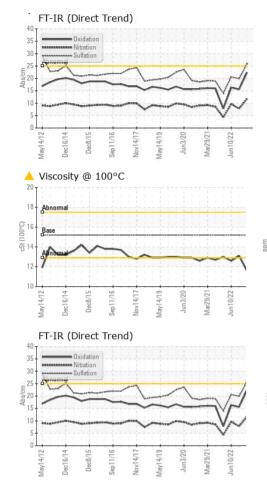
Sample Rating Trend

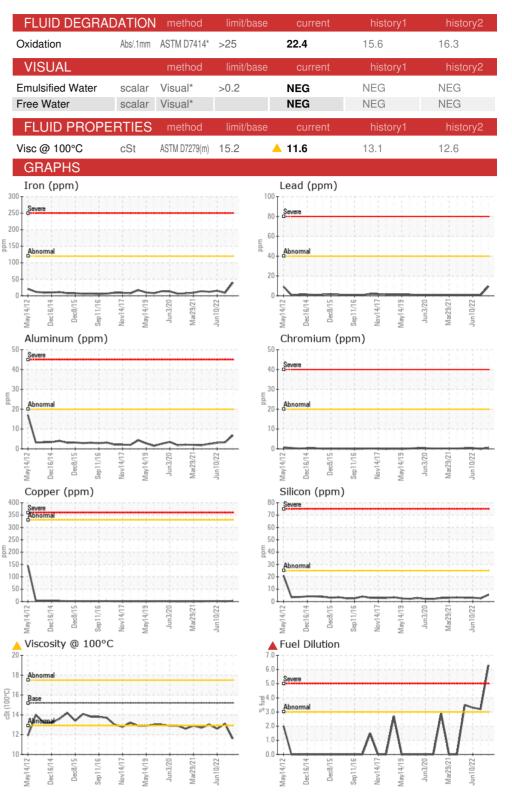
FUEL

DIAGNOSIS SAMPLE INFORMATION method GFL0121949 GFL0061859 GFL0049961 Sample Number Client Info Recommendation We advise that you check the fuel injection system. 28 Apr 2024 Sample Date Client Info 02 Dec 2022 10 Jun 2022 The oil change at the time of sampling has been 727642 Machine Age kms **Client Info** 693537 20912 noted. We recommend an early resample to Oil Age kms Client Info 0 0 451 monitor this condition. Oil Changed Client Info Changed N/A Changed SEVERE Sample Status MARGINAL ABNORMAL All component wear rates are normal. CONTAMINATION Contamination There is a high amount of fuel present in the oil. Water WC Method >0.2 NEG NEG NEG Tests confirm the presence of fuel in the oil. Glycol WC Method NEG NEG NEG Fluid Condition WEAR METALS method Fuel is present in the oil and is lowering the 9 viscosity. The oil is no longer serviceable due to the Iron ASTM D5185(m) >120 40 15 ppm presence of contaminants. ASTM D5185(m) >20 0 Chromium ppm <1 <1 Nickel ASTM D5185(m) >5 1 <1 <1 ppm 0 ASTM D5185(m) >2 n 0 Titanium ppm Silver ppm ASTM D5185(m) >2 0 0 0 Aluminum ASTM D5185(m) >20 7 3 3 ppm ASTM D5185(m) >40 10 <1 Lead ppm <1 ASTM D5185(m) 2 Copper >330 2 <1 ppm Tin ppm ASTM D5185(m) >15 <1 <1 <1 0 Antimony ASTM D5185(m) 0 ppm <1 Vanadium ppm ASTM D5185(m) 0 0 0 0 Beryllium 0 0 ppm ASTM D5185(m) 0 0 Cadmium ppm ASTM D5185(m) 0 **ADDITIVES** Boron ASTM D5185(m) 30 49 4 4 ppm 0 0 0 Barium ppm ASTM D5185(m) 57 Molybdenum 97 57 ppm ASTM D5185(m) Manganese ASTM D5185(m) <1 ppm <1 <1 Magnesium ppm ASTM D5185(m) 110 683 930 969 Calcium ppm ASTM D5185(m) 2740 1286 1069 1016 1240 1044 Phosphorus ppm ASTM D5185(m) 659 1049 Zinc ASTM D5185(m) 1350 781 1152 1174 ppm 2555 Sulfur ASTM D5185(m) 3520 1942 2587 ppm Lithium ASTM D5185(m) 0 ppm <1 <1 CONTAMINANTS method history2 3 3 >25 6 Silicon ASTM D5185(m) ppm Sodium 8 4 2 ppm ASTM D5185(m) Potassium ppm ASTM D5185(m) >20 1 <1 1 Fuel % ASTM D7593* >3.0 **6.3** 3.2 ▲ 3.3 **INFRA-RED** historv2 0 Soot % % ASTM D7844* >4 0.6 0 Abs/cm Nitration ASTM D7624* >20 11.7 7.8 9.7 ASTM D7415* 19.9 Sulfation Abs/.1mm >30 25.8 20.6



OIL ANALYSIS REPORT





Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 252 - GTA Hauling CALA Sample No. : GFL0121949 Received : 15 May 2024 3668 Weston Road Lab Number : 02635537 Tested : 16 May 2024 North York, ON ISO 17025:2017 Accredited Unique Number : 5776690 Diagnosed : 16 May 2024 - Wes Davis CA M9L 1W2 Laboratory Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel) Contact: Amanda Cipollone To discuss this sample report, contact Customer Service at 1-800-268-2131. acipollone@gflenv.com Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Т: Validity of results and interpretation are based on the sample and information as supplied. F:

Report Id: GFL252 [WCAMIS] 02635537 (Generated: 05/22/2024 10:46:21) Rev: 1

Submitted By: Tamara Denney Page 2 of 2