



UIN 0B02E99

Diesel Engine

Unit No. Sohler Home

Unit:
Make
Model
Serial No. 00766466

Site

Compartment:

Name Diesel Engine
Make
Model
Serial No.
Capacity:

Customer:

MITCH HOKAMP
55932 857 RD
Randolph, NE 68771
USA

DIAGNOSIS

All wear levels appear within acceptable limits for first sample. Silicon level (dirt/sealant material) satisfactory. Water content acceptable. Fuel dilution satisfactory. Viscosity within specified operating range. Action: Resample at next recommended interval to monitor and establish wear trend.

ANALYST: Sam.Smith Kansas City

Legend box containing icons for Normal (green check), Severe (red stop), Abnormal (blue wrench), Caution (yellow triangle), and Normal (green check).

Table with 2 columns: DATE SAMPLED (20-Nov-24), DATE RECEIVED (26-Nov-24), DATE REPORTED (27-Nov-24)

Table with 2 columns: LAB NO. (43021996474), SIF NO. (35588380), TIME ON UNIT, TIME ON OIL (160), OIL BRAND (Kendall), OIL TYPE (Super-D XA), OIL GRADE (SAE 15W40), OIL ADDED, FILTER (Not Applicable), OIL CHANGED (Not Changed), WO NUMBER

Metals (ppm) table listing Iron (Fe), Chromium (Cr), Lead (Pb), Copper (Cu), Tin (Sn), Aluminium (Al), Nickel (Ni), Silver (Ag), Titanium (Ti), Vanadium (V) with values ranging from <1 to 82.

Contaminants (ppm) table listing Silicon (Si), Sodium (Na), Potassium (K) with values 4, 6, and <1.

Additives (ppm) table listing Magnesium (Mg), Calcium (Ca), Barium (Ba), Phosphorus (P), Zinc (Zn), Molybdenum (Mo), Boron (B) with values ranging from 12 to 2005.

Contaminants table listing Water (%) <0.05, Coolant No.

Physical Tests table listing Viscosity (cSt 100C) 16.1, Fuel (%) <1, PQ Index <10, Soot (%) Infrared D7844 1.3



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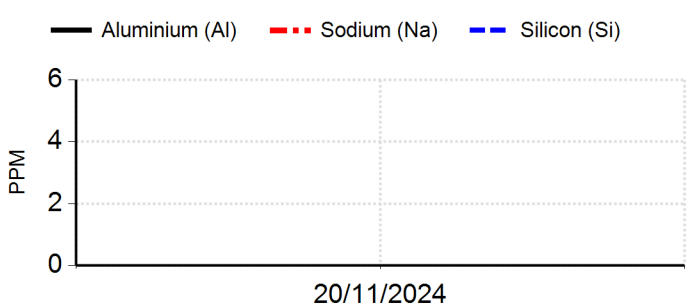
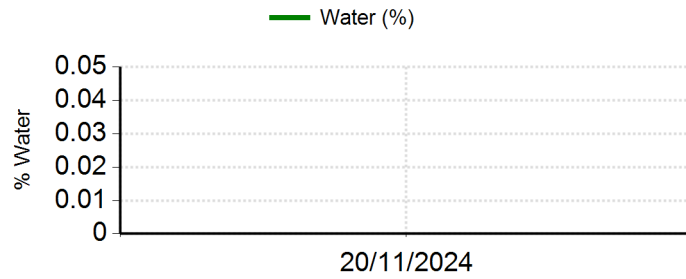
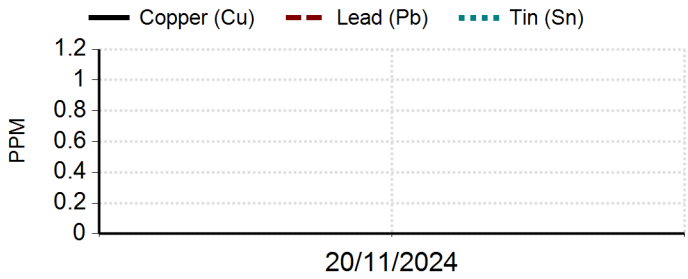
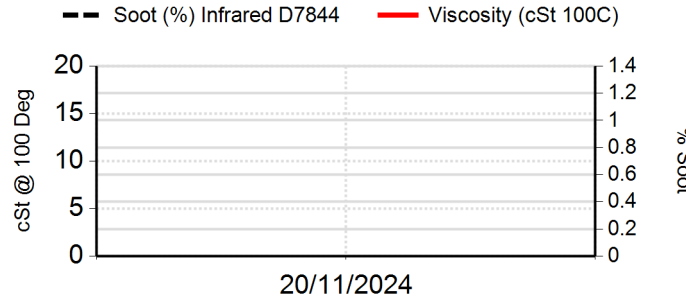
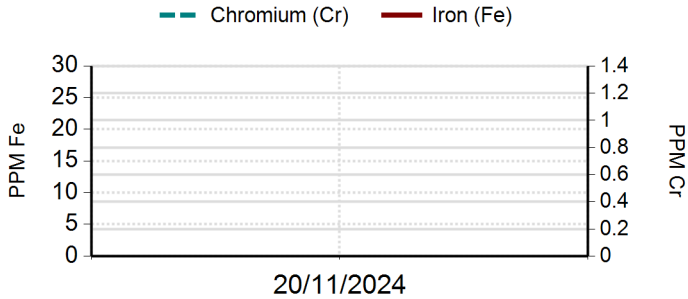
**Europe**

Prague

**TEST METHODS:**

Acid Number:	ASTM D974/D664 (*M)
Base Number:	ASTM D4739 (*M)
Base Number (Perchloric):	ASTM D2896B, back (*M)
Fuel Dilution by GC:	ASTM D7593
Fuel Dilution Visc/Setaflash	In House
Fuel Soot ATR/IR:	ASTM D7686 (*M)
Soot by FTIR:	ASTM D7844
Glycol:	In House
Metals by ICP AES:	ASTM D5185 (*M)
Ox, NOx, SOx, FTIR:	ASTM E2412/D7418/D7414 D7415
PQ Index:	ASTM D8120 (*M)
Particle Count:	ASTM D7647 (*M) / ISO 4406
Kinematic Viscosity:	ASTM D445 (*M) / D7279 (*M)
Water KF:	D6304 / E203 (*M)
Water Crackle:	In House

\*M - Modified Method



Filter Image

Filter patch test is not performed Contact laboratory for more information

Since services are based on samples and information supplied by others, and since corrective actions, if any, are necessarily taken by others, these services are rendered without any warranty or liability of any kind beyond the actual amount paid to ALS Tribology for the services. Reported recommendations are based on interpretations of the generated test results and historical data. Certain test results appearing in this report may have been tested at other ALS laboratories within the Tribology divisional network.

Mitch Hokamp  
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