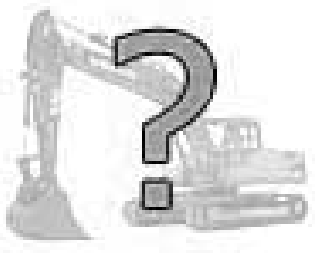
CONSTRUCTION EQUIPMENT

660419 SENNEBOGEN 850E 850.0.3178 - DIESEL ENGINE

Sample No: VCP445850
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 660419



FERROUS PROCESSING AND TRADING
3400 E LAFAYETTE
DETROIT, MI
US 48207
Contact: KEITH HALL
keith.hall@fpt1.com
T:
F:

SAMPLE INFORMATION

Sample Number		**VCP445850**	---	---	---
Sample Date		**08 Feb 2024**	---	---	---
Machine Hours		**958**	---	---	---
Oil Hours		**958**	---	---	---
Oil Changed		**Changed**	---	---	---
Sample Status		**NORMAL**	---	---	---

OIL CONDITION

Visc @ 100°C	cSt	**12.5**	---	---	---
Base Number (BN)	mg KOH/g	**6.3**	---	---	---
Oxidation (PA)	%	**84**	---	---	---

CONTAMINATION

Water	%	**NEG**	---	---	---
Soot %	%	**0.1**	---	---	---
Nitration (PA)	%	**100**	---	---	---
Sulfation (PA)	%	**64**	---	---	---
Glycol	%	**NEG**	---	---	---
Fuel	%	**<1.0**	---	---	---
Silicon	ppm	**3**	---	---	---
Sodium	ppm	**4**	---	---	---
Potassium	ppm	**40**	---	---	---

WEAR METALS

Iron	ppm	**19**	---	---	---
Copper	ppm	**4**	---	---	---
Lead	ppm	**<1**	---	---	---
Tin	ppm	**<1**	---	---	---
Aluminum	ppm	**13**	---	---	---
Chromium	ppm	**<1**	---	---	---
Molybdenum	ppm	**89**	---	---	---
Nickel	ppm	**0**	---	---	---
Titanium	ppm	**0**	---	---	---
Silver	ppm	**0**	---	---	---
Manganese	ppm	**2**	---	---	---
Vanadium	ppm	**0**	---	---	---

ADDITIVES

Calcium	ppm	**2199**	---	---	---
Magnesium	ppm	**83**	---	---	---
Zinc	ppm	**1129**	---	---	---
Phosphorus	ppm	**1007**	---	---	---
Barium	ppm	**5**	---	---	---
Boron	ppm	**47**	---	---	---

Diagnosis

Resample at the next service interval to monitor.Metal levels are typical for a components first oil change. Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

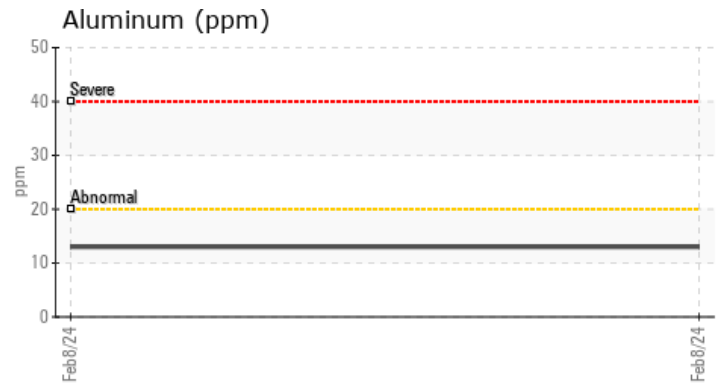
Depot: FERDET
Unique No: 10896457
Signed: Wes Davis
Report Date: 26 Feb 2024

GRAPHS

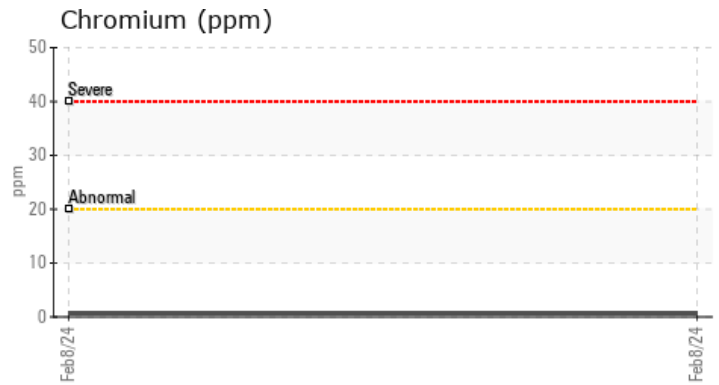
Iron (ppm)

Lead (ppm)

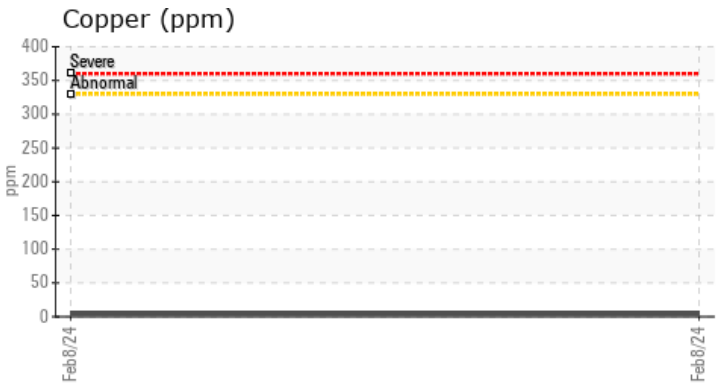
Aluminum (ppm)



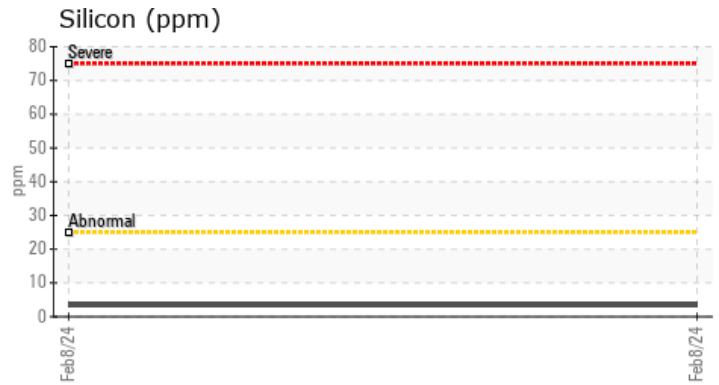
Chromium (ppm)



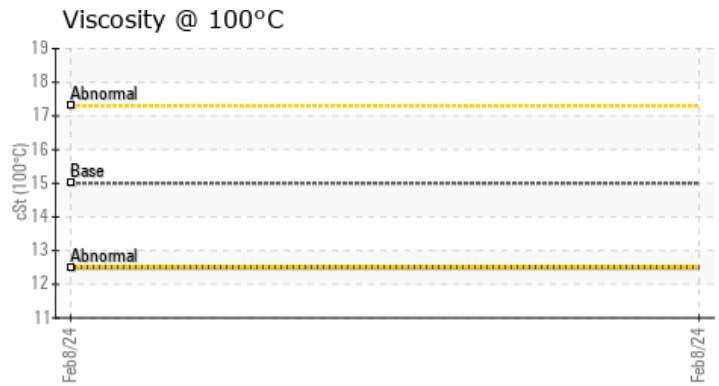
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number