FORD FORD ESCAPE - GASOLINE ENGINE

Sample No: WC0708601

Oil Type: BIG RED 5W30

SAMPLE INFORMATION

Sample Number		**WC0708601**	---	---	---
Sample Date		**09 Jun 2022**	---	---	---
Machine Hours		**89825**	---	---	---
Oil Hours		**4334**	---	---	---
Oil Changed		**Changed**	---	---	---
Sample Status		**SEVERE**	---	---	---

OIL CONDITION

Visc @ 100°C	cSt	▲ **6.2**	---	---	---
Base Number (BN)	mg KOH/g	■ **1.95**	---	---	---
Oxidation (PA)	%	**31**	---	---	---

CONTAMINATION

Water	%	**NEG**	---	---	---
Soot %	%	■ **0**	---	---	---
Nitration (PA)	%	**33**	---	---	---
Sulfation (PA)	%	**40**	---	---	---
Glycol	%	▲ **0.031**	---	---	---
Fuel	%	▲ **10.3**	---	---	---
Silicon	ppm	■ **4**	---	---	---
Sodium	ppm	● **217**	---	---	---
Potassium	ppm	▲ **24**	---	---	---

WEAR METALS

Iron	ppm	■ **3**	---	---	---
Copper	ppm	■ **3**	---	---	---
Lead	ppm	■ **1**	---	---	---
Tin	ppm	■ **<1**	---	---	---
Aluminum	ppm	■ **0**	---	---	---
Chromium	ppm	■ **0**	---	---	---
Molybdenum	ppm	**3**	---	---	---
Nickel	ppm	■ **<1**	---	---	---
Titanium	ppm	**0**	---	---	---
Silver	ppm	■ **<1**	---	---	---
Manganese	ppm	**2**	---	---	---
Vanadium	ppm	**0**	---	---	---

ADDITIVES

Calcium	ppm	● **246**	---	---	---
Magnesium	ppm	**79**	---	---	---
Zinc	ppm	● **324**	---	---	---
Phosphorus	ppm	● **423**	---	---	---
Barium	ppm	**0**	---	---	---
Boron	ppm	**5**	---	---	---

Michael Lemere
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T:
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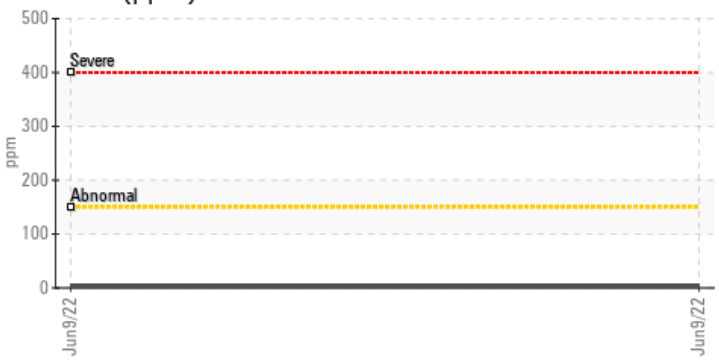
Diagnosis

Taking the sample cold limits the accuracy of our diagnosis. We advise that you check the fuel injection system. We advise that you check for the source of the coolant leak. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Advise you send the oil filter for a more detailed analysis of the wear situation that is occurring in this component.The wear metal levels do not reflect the reported failure. Test for glycol is positive. There is a high amount of fuel present in the oil. There is a light concentration of glycol present in the oil. Tests confirm the presence of fuel in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

Depot: MICOSH
Unique No: 5411610
Signed: Kevin Marson
Report Date: 16 Jun 2022

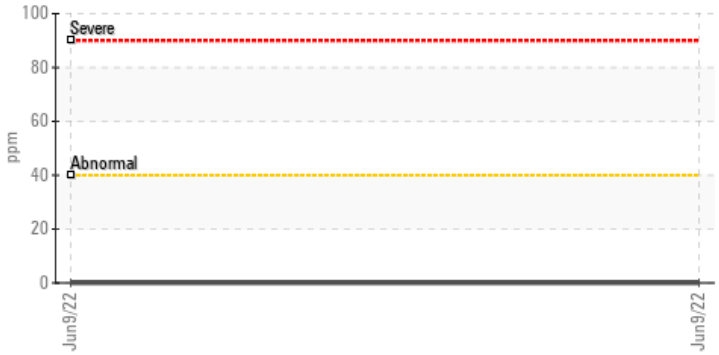
GRAPHS

Iron (ppm)

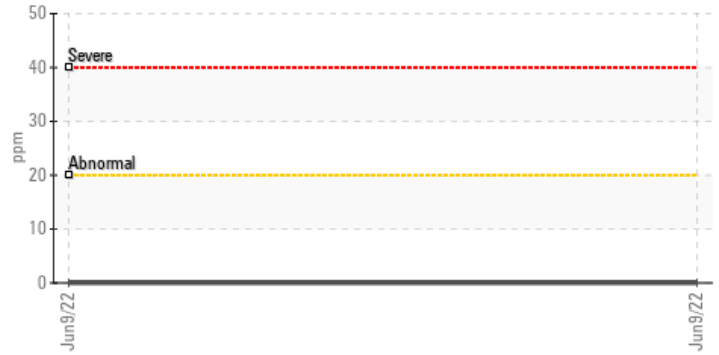


Lead (ppm)

Aluminum (ppm)

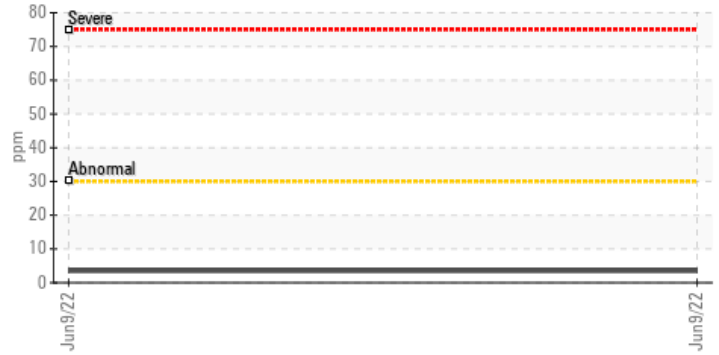


Chromium (ppm)

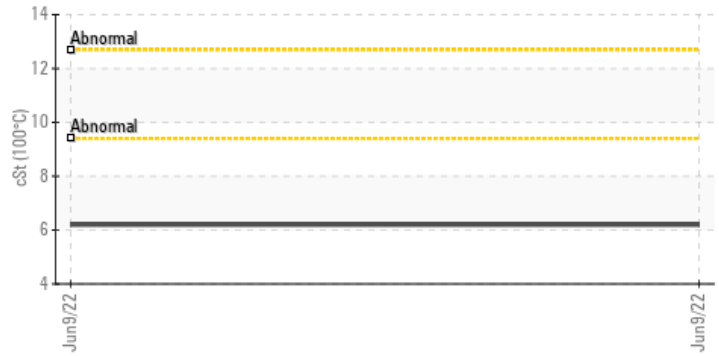


Copper (ppm)

Silicon (ppm)



▲ Viscosity @ 100°C



Base Number