

Area CONSTRUCTORS, INC Machine Id FORD 04-0640 Component

Diesel Engine Fluid MOBIL DELVAC 1 5W40 (--- GAL)

COMPONENT CONDITION SUMMARY









RECOMMENDATION

We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS									
Sample Status				SEVERE	SEVERE	SEVERE			
Silicon	ppm	ASTM D5185m	>25	<u> </u>	10	13			
Fuel	%	ASTM D3524	>5	e 13.3	1 0.7	7 .69			
Visc @ 100°C	cSt	ASTM D445	15.0	🛑 8.3	9.8	9			

Customer Id: CONLINNE Sample No.: SBP0004909 Lab Number: 05966977 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 jhester@wearcheckusa.com

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED ACTIONS						
Action	Status	Date	Done By	Description		
Change Fluid			?	Oil and filter change at the time of sampling has been noted.		
Change Filter			?	Oil and filter change at the time of sampling has been noted.		

Resample---?We recommend an early resample to monitor this condition.Check Fuel/injector
System---?We advise that you check the fuel injection system.

HISTORICAL DIAGNOSIS



29 Jul 2022 Diag: Angela Borella

We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil. Viscosity of sample indicates oil is within SAE 30 range, advise investigate. The oil is no longer serviceable due to the presence of contaminants.





10 Jul 2020 Diag: Wes Davis

We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.All component wear rates are normal. There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil. Viscosity of sample indicates oil is within SAE 20 range, advise investigate. The oil is no longer serviceable due to the presence of contaminants.



VISCOSITY

FUEL

14 Jun 2019 Diag: Wes Davis

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.All component wear rates are normal. There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil. Viscosity of sample indicates oil is within SAE 30 range, advise investigate. The oil is no longer serviceable due to the presence of contaminants.





OIL ANALYSIS REPORT

Sample Rating Trend

CONSTRUCTORS, INC FORD 04-0640 Component

Diesel Engine Fluid MOBIL DELVAC 1 5W40 (--- GAL)

DIAGNOSIS

Recommendation

We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

There is a high amount of fuel present in the oil. Elemental level of silicon (Si) above normal indicating ingress of seal material.

Fluid Condition

Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.



Sample Number		Client Info		SBP0004909	SBP0001329	SBP95461006
Sample Date		Client Info		29 Sep 2023	29 Jul 2022	10 Jul 2020
Machine Age	mls	Client Info		97117	89414	84696
Oil Age	mls	Client Info		7703	4718	5753
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				SEVERE	SEVERE	SEVERE
CONTAMINATION	N	method	limit/base	current	history1	history2
Glycol		WC Method		NEG	NEG	0.0
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	29	27	25
Chromium	ppm	ASTM D5185m	>20	2	2	3
Nickel	ppm	ASTM D5185m	>2	<1	<1	3
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m	>25	2	3	4
Lead	ppm	ASTM D5185m	>40	18	5	3
Copper	ppm	ASTM D5185m	>330	4	2	2
Tin	ppm	ASTM D5185m	>15	2	1	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	291	19	80	46
Barium	ppm	ASTM D5185m	0.0	0	0	0
Molybdenum	ppm	ASTM D5185m	8.0	49	43	41
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m	624	804	694	522
Calcium	ppm	ASTM D5185m	2158	924	1084	1705
Phosphorus	ppm	ASTM D5185m	1132	861	841	965
Zinc	ppm	ASTM D5185m	1300	1061	1029	932
Sulfur	ppm	ASTM D5185m	3616	2611	3042	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	A 34	10	13
Sodium	ppm	ASTM D5185m		5	6	13
Potassium	ppm	ASTM D5185m	>20	0	0	0
Chlorine	ppm	ASTM D5185m				0
Fuel	%	ASTM D3524	>5	e 13.3	• 10.7	7.69
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	8.6	10.6	
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.5	34.1	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	22.3	39.8	
Base Number (BN)	ma KOH/a	ASTM D2896	11.0	62	6.1	



OIL ANALYSIS REPORT



F:

history