

### **OIL ANALYSIS REPORT**

Sample Rating Trend



# FORD 222127

Component Diesel Engine Fluid {not provided} (--- GAL)

#### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

#### Wear

Metal levels are typical for a components first oil change.

#### Contamination

There is no indication of any contamination in the oil.

#### Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0111305		
Sample Date		Client Info		23 Apr 2024		
Machine Age	hrs	Client Info		10818		
Oil Age	hrs	Client Info		10818		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	8		
Chromium	ppm	ASTM D5185m		1		
Nickel	ppm	ASTM D5185m	>2	0		
Titanium	ppm	ASTM D5185m	>2	0		
Silver	ppm	ASTM D5185m	>2	<1		
Aluminum	ppm	ASTM D5185m	>25	3		
Lead	ppm	ASTM D5185m	>40	<1		
Copper	ppm	ASTM D5185m	>330	2		
Tin	ppm	ASTM D5185m	>15	0		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
	pp	No I III Do I Colli		0		
ADDITIVES	pp	method	limit/base	current	history1	history2
ADDITIVES Boron	ppm		limit/base			history2
		method	limit/base	current	history1	
Boron	ppm	method ASTM D5185m	limit/base	current 117	history1	
Boron Barium	ppm ppm	method ASTM D5185m ASTM D5185m	limit/base	current 117 0	history1 	
Boron Barium Molybdenum	ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	current 117 0 117	history1  	
Boron Barium Molybdenum Manganese	ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	current 117 0 117 <1	history1   	
Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	current 117 0 117 <1 647	history1   	
Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	current           117           0           117           <1           647           1174	history1	  
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	current           117           0           117           <1           647           1174           760	history1	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	current         117         0         117         <1         647         1174         760         847         3994         current	history1	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon	ppm ppm ppm ppm ppm ppm ppm ppm ppm <b>TS</b>	method           ASTM D5185m		current           117           0           117           <1           647           1174           760           847           3994           current           11	history1	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method           ASTM D5185m	limit/base	current         117         0         117         <1         647         1174         760         847         3994         current         11         2	history1	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm <b>TS</b>	method           ASTM D5185m	limit/base >25 >20	current         117         0         117         <1         647         1174         760         847         3994         current         11         2	history1 history1 history1	    history2  
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method           ASTM D5185m	limit/base >25 >20 limit/base	current         117         0         117         <1         647         1174         760         847         3994         current         11         2         2         current	history1	     history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method           ASTM D5185m	limit/base >25 >20 limit/base >3	current         117         0         117         <1         647         1174         760         847         3994         current         11         2         2         current         0	history1 history1 history1	    history2  
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm ppm ppm <b>TS</b>	method         ASTM D5185m	limit/base >25 >20 limit/base >3 >20	current         117         0         117         <1         647         1174         760         847         3994         current         11         2         current         0         8.1	history1                              history1            history1            history1	history2 history2 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method           ASTM D5185m	limit/base >25 >20 limit/base >3	current         117         0         117         <1         647         1174         760         847         3994         current         11         2         2         current         0	history1 history1 history1 history1	     history2  history2  history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method         ASTM D5185m	limit/base >25 >20 limit/base >3 >20	current         117         0         117         <1         647         1174         760         847         3994         current         11         2         current         0         847         3994	history1                              history1            history1            history1	     history2   history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method           ASTM D5185m           ASTM D5185m	Imit/base >25 >20 Imit/base >3 >20 >30	current         117         0         117         <1         647         1174         760         847         3994         current         11         2         2         current         0         8.1         17.0	history1                           history1            history1            history1            history1 </th <th>    history2  history2  history2</th>	    history2  history2  history2



7.0

1.0 0.0 Apr23/24

18 <del>т</del> 17-Abnormal

## **OIL ANALYSIS REPORT**

FT-IR (Direct Trend)		VISUAL		method	limit/base	current	history1	history2	
Oxidation		White Metal	scalar	*Visual	NONE	NONE			
20 - Announce Nitration		Yellow Metal		*Visual	NONE	NONE			
		Precipitate		*Visual	NONE	NONE			
20 -		Silt		*Visual	NONE	NONE			
15		Debris		*Visual	NONE	NONE			
10 +		Sand/Dirt		*Visual	NONE	NONE			
5 <u>↓</u> + 82	24	Appearance		*Visual	NORML	NORML			
Apr23/24	Apr23/24	Odor		*Visual	NORML				
<b>14</b>	4	Emulsified Water				NORML			
Base Number				*Visual	>0.2	NEG			
.0		Free Water		*Visual	l'acht de cons	NEG			
.0 -		FLUID PROPE		method ASTM D445	limit/base	current 13.2	history1	history2	
.0-			COL	A01101 D440		13.2			
.0		GRAPHS							
.0+		Ferrous Alloys							
.0		10iron ]							
Apr23/24	6	8 - newspace chromium							
Ap	Am	matar							
Viscosity @ 100°C		6							
18		H 4-							
17 Abnormal									
16 -		2							
15		0							
14		3/24			3/24 -				
15 Abnormal		Apr23/24			Apr23/24				
11		Non-ferrous Metals	5						
3/24	VC/C	<sup>10</sup> T							
Apr23/24	Crrv	copper lead							
		o assessment tin							
		6-							
		udd							
		4							
		2-							
		0 +			24				
		4pr23/24			/pr23/				
		4			A				
		Viscosity @ 100°C				Base Number			
					7.0			i	
		<b>Q</b>			6.0				
		16			Hox 5.0	-			
	0000	5015 - 15 - 13 14 -			(0,10) HOX Buy, as annung seg 2.0				
	č	5 14			<sup>2</sup> 3.0				
		13 - Abnormal			2 2.0				
		12			1.0				
		11			0.0				
		Apr23/24			Apr23/24 -			Apr23/24 •	
		Apr2			Apr2	Apr23/24		Apr2.	
		: WearCheck USA - 501 : GFL0111305	Madison <b>Receiv</b>			GFL Envir	onmental - 981 - Po 1000 S Bus		
	ab Number :		Tested		Jul 2024			Port Arthur, TX	
	ique Number :	: 11114710	Diagno		Jul 2024 - W	es Davis		US 77640	
Certificate L2367 Te	st Package	FLEET	-					IICHAEL KAY	
		, contact Customer Service at 1-800-237-1369. mkay@gflenv.							
		re outside of the ISO 17 ecifications are based of				rule (JCGM 106:		336)660-9331 F:	

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