

OIL ANALYSIS REPORT







FORD 7303

Component Gasoline Engine Fluid GASOLINE ENGINE OIL SAE 5W20 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

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 INFORM	1ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PE0002909		
Sample Date		Client Info		19 Oct 2023		
Machine Age	mls	Client Info		59464		
Oil Age	mls	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
CONTAMINATION	١	method	limit/base	current	history1	history2
Fuel		WC Method	>4.0	<1.0		
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	historv1	historv2
Iron			. 150	C	etery :	
Chromium	ppm	ASTM DE105m	>100	0		
Nickel	ppm	ASTM DE105m	>20	<1		
Titanium	ppm	ASTM DE185m	<i>></i> 0	<1		
Silvor	ppm	ASTIVI DOTODIII	> 2	<1		
Aluminum	ppm	ASTM D5185m	>10	2		
	ppm	ASTM D5185m	>50			
Copper	ppm	ASTM D5185m	>155	22		
Tin	ppm	ASTM D5185m	>10	~1		
Vanadium	nom	ASTM D5185m	210	<1		
Cadmium	ppm	ASTM D5185m		<1		
	pp		Provide America		Internet.	history O
ADDITIVES		method	limit/base	current	nistory i	nistory2
_						
Boron	ppm	ASTM D5185m	75	44		
Boron Barium	ppm ppm	ASTM D5185m ASTM D5185m	75 5	44 0		
Boron Barium Molybdenum	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	75 5 100	44 0 77		
Boron Barium Molybdenum Manganese	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	75 5 100	44 0 77 2	 	
Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	75 5 100 12	44 0 77 2 507	 	
Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	75 5 100 12 2100	44 0 77 2 507 950	 	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	75 5 100 12 2100 650	44 0 77 2 507 950 590		
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	75 5 100 12 2100 650 850	44 0 77 2 507 950 590 698		
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	75 5 100 12 2100 650 850 2500	44 0 77 2 507 950 590 698 2484		
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	75 5 100 12 2100 650 850 2500 limit/base	44 0 77 2 507 950 590 698 2484 current	 history1	 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	75 5 100 12 2100 650 850 2500 limit/base >30	44 0 77 2 507 950 590 698 2484 current 19	 history1	 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	75 5 100 12 2100 650 850 2500 limit/base >30 >50	44 0 77 2 507 950 590 698 2484 2484 <u>current</u> 19 2	 history1 	 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	75 5 100 12 2100 650 850 2500 limit/base >30 >50	44 0 77 2 507 950 590 698 2484 2484 current 19 2 3	 history1 	 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	75 5 100 12 2100 650 850 2500 limit/base >20 limit/base	44 0 77 2 507 950 590 698 2484 2484 19 2 3 3	 history1 history1	history2 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	75 5 100 12 2100 650 850 2500 limit/base >30 >50 >20 limit/base	44 0 77 2 507 950 590 698 2484 2484 19 2 3 3 current 0	 history1 history1	 history2 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	75 5 100 12 2100 650 850 2500 2500 limit/base >20 limit/base	44 0 77 2 507 950 590 698 2484 2484 19 2 2 3 <i>current</i> 0 0 9.9	 history1 history1 history1	history2 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	75 5 100 12 2100 650 850 2500 imit/base >30 >20 imit/base	44 0 77 2 507 950 590 698 2484 2484 0 19 2 3 3 <i>current</i> 0 9.9 22.6	 history1 history1 	history2 history2 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D7844	75 5 100 12 2100 650 850 2500 limit/base >30 >20 limit/base >20 >30	44 0 77 2 507 950 590 698 2484 current 19 2 3 current 0 9.9 22.6	history1 history1 history1 history1 history1 history1	history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation FLUID DEGRADA Oxidation	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D7844 *ASTM D7844 *ASTM D7624 *ASTM D7415	75 5 100 12 2100 650 850 2500 imit/base >30 250 imit/base >20 30 imit/base	44 0 77 2 507 950 590 698 2484 current 19 2 3 current 0 9.9 22.6 current 13.5	 	



OIL ANALYSIS REPORT





	White Metal						
		scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
	Precipitate	scalar	*Visual	NONE	NONE		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
23 -		scalar	*Visual	NORMI	NORMI		
Oct19,	Appearance	coalar	*Vicual		NORML		
-		Scalar	*\/ioual		NORME		
		Scalar	*\/ioual	>0.2	NEG		
	Free water	scalar	visual		NEG		
	FLUID PROPER	TIES	method	limit/base	current	history1	history2
	Visc @ 100°C	cSt	ASTM D445	7.5	8.5		
	GRAPHS						
	Ferrous Alloys						
	iron						
	8 -						
	6						
	ud d						
	4+						
	2						
	/23			/23 -			
	Oct19			Oct19			
	Non forrous Moto	de		-			
	²⁵ T						
	copper						
	20 - copper lead						
	20 - copper tin						
	20- 15- Ead						
	20 - copper 20 - timestication final field						
	20 - time time time time time time time time						
	20 - Copper 20 - Line -						
	20 - Copper 15 - Copper 15 - Copper 10 -						
	20 20 15 10 5 0 E			23			
	20 20 15 10 5 0 EC EC EC EC EC EC EC EC EC EC			let 19/23			
	20 20 15 10 5 10 10 5 10 10 10 10 10 10 10 10 10 10			Oct19/23			
	20 20 20 20 20 20 20 20 20 20	c		0et19/23	Base Number		
	20 20 20 20 20 20 20 20 20 20	C		0ct19/23	Base Number		
	20 20 20 20 20 20 20 20 20 20	c		0ct19/23	Base Number		
	20 20 20 20 20 20 20 20 20 20	c		0dfg) 5	Base Number		
	20 20 20 20 20 20 20 20 20 20	c		mg KOH(a)	Base Number		
	20 20 20 20 20 20 20 20 20 20	c		Def (mg K0H/g)	Base Number		
	20 20 20 20 20 20 20 20 20 20	c		0dc19/23	Base Number		
	20 20 20 20 20 20 20 20 20 20	c		Doct 19/23	Base Number		
	20 20 20 20 20 20 20 20 20 20	c		Oct19/23	Base Number		
	20 20 20 20 20 20 20 20 20 20	c		0ct19/23	Base Number		
	20 20 20 20 20 20 20 20 20 20	C		19/23	Base Number		
	20 20 20 20 20 20 20 20 20 20	C		Oct19/23 -	Base Number		
	viscosity @ 100° booling booling booling competition booling booling competition competi	C		0ct19/23 -	Base Number		
ory	Viscosity @ 100° base Control of the second secon	C 501 Madi	son Ave., Ca	(H)(O) (H	Base Number	CI	TY OF SEQU
tory No.	Viscosity @ 100° biology Viscosity @ 100° biology Control of the second sec	C 501 Madi Received	son Ave., Ca	(0)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)	Base Number		TY OF SEQU 2 W CEDAR 3
tory PNo. mber	Viscosity @ 100° Viscosity @ 100° Base Abnormal Exercised Construction Base Construction Con	501 Madi Received Diagnos	son Ave., Ca d : 15 l ed : 30 l	ry, NC 2751 Nov 2023 Nov 2023	Base Number		TY OF SEQU 2 W CEDAR S SEQUIM, V

 Certificate L2367
 Test Package
 : FLEET (Additional Tests: FT-IR, ICP, KV100, KV40, SCREEN, TBN)
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 To discuss this sample report, contact Customer Service at 1-800-237-1369.
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 * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.
 statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

