

# **OIL ANALYSIS REPORT**

Sample Rating Trend



## Area {UNASSIGNED} Machine Id 98016 FORD

1 Gasoline Engine Fluid 15W40 AMG (1 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.

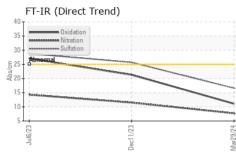
### Fluid Condition

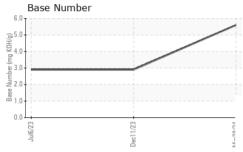
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

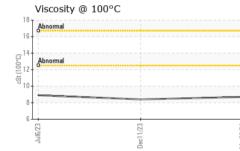
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		SBP0006531	SBP0006546	SBP0003928
Sample Date		Client Info		29 Mar 2024	11 Dec 2023	06 Jul 2023
Machine Age	mls	Client Info		88357	86145	80000
Oil Age	mls	Client Info		2212	6145	6000
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	١	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>150	12	18	35
Chromium	ppm	ASTM D5185m	>20	1	1	2
Nickel	ppm	ASTM D5185m	>5	<1	0	<1
Titanium	ppm	ASTM D5185m		1	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>40	2	3	6
Lead	ppm	ASTM D5185m	>50	<1	0	0
Copper	ppm	ASTM D5185m	>155	1	2	2
Tin	ppm	ASTM D5185m	>10	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		27	20	22
Barium				0	0	1.0
Lanum	ppm	ASTM D5185m		U	0	10
Molybdenum	ppm ppm	ASTM D5185m		53	0 68	80
Molybdenum Manganese		ASTM D5185m ASTM D5185m		53 <1	68 1	80 1
Molybdenum Manganese Magnesium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m		53 <1 491	68 1 472	80 1 492
Molybdenum Manganese Magnesium Calcium	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		53 <1 491 1127	68 1 472 941	80 1 492 1072
Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		53 <1 491 1127 641	68 1 472 941 590	80 1 492 1072 677
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		53 <1 491 1127 641 786	68 1 472 941 590 752	80 1 492 1072 677 841
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		53 <1 491 1127 641	68 1 472 941 590 752 2384	80 1 492 1072 677 841 2770
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	53 <1 491 1127 641 786 2216 current	68 1 472 941 590 752 2384 history1	80 1 492 1072 677 841 2770 history2
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m <b>method</b> ASTM D5185m	>30	53 <1 491 1127 641 786 2216 current 5	68 1 472 941 590 752 2384 history1 7	80 1 492 1072 677 841 2770 history2 28
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m <b>method</b> ASTM D5185m	>30 >400	53 <1 491 1127 641 786 2216 2216 current 5 1	68 1 472 941 590 752 2384 history1 7 2	80 1 492 1072 677 841 2770 history2 28 3
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 ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>30 >400 >20	53 <1 491 1127 641 786 2216 2216 current 5 1 2	68 1 472 941 590 752 2384 history1 7 2 1	80 1 492 1072 677 841 2770 history2 28 3 2
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m <b>method</b> ASTM D5185m	>30 >400 >20 >4.0	53 <1 491 1127 641 786 2216 2216 current 5 1	68 1 472 941 590 752 2384 history1 7 2 1 1 <1.0	80 1 492 1072 677 841 2770 history2 28 3 2 <1.0
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED	ppm ppm ppm ppm ppm ppm ppm ppm ppm %	ASTM D5185m ASTM D5185m	>30 >400 >20	53 <1 491 1127 641 786 2216 current 5 1 2 2 <1.0 current	68 1 472 941 590 752 2384 history1 7 2 1 1 <1.0 history1	80 1 492 1072 677 841 2770 history2 28 3 2 <1.0 history2
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D3524	>30 >400 >20 >4.0 limit/base	53 <1 491 1127 641 786 2216 current 5 1 2 <1.0 current 0	68 1 472 941 590 752 2384 history1 7 2 1 <1.0 history1 0.1	80 1 492 1072 677 841 2770 history2 28 3 2 <1.0 history2 0.1
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm ppm ppm %	ASTM D5185m ASTM D3524 <b>method</b> *ASTM D7844	>30 >400 >20 >4.0	53 <1 491 1127 641 786 2216 <u>current</u> 5 1 2 <1.0 <u>current</u> 0 7.7	68 1 472 941 590 752 2384 history1 7 2 1 <1.0 history1 0.1 11.5	80 1 492 1072 677 841 2770 history2 28 3 2 <1.0 history2 0.1 14.3
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D3524	>30 >400 >20 >4.0 limit/base	53 <1 491 1127 641 786 2216 current 5 1 2 <1.0 current 0	68 1 472 941 590 752 2384 history1 7 2 1 <1.0 history1 0.1	80 1 492 1072 677 841 2770 history2 28 3 2 <1.0 history2 0.1
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm ppm ppm %	ASTM D5185m ASTM D3524 <b>method</b> *ASTM D7844	>30 >400 >20 >4.0 limit/base	53 <1 491 1127 641 786 2216 <u>current</u> 5 1 2 <1.0 <u>current</u> 0 7.7	68 1 472 941 590 752 2384 history1 7 2 1 <1.0 history1 0.1 11.5	80 1 492 1072 677 841 2770 history2 28 3 2 <1.0 history2 0.1 14.3
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm ppm %	ASTM D5185m ASTM D51854 *ASTM D7824 *ASTM D7824	>30 >400 >20 >4.0 limit/base >20 >30	53 <1 491 1127 641 786 2216 current 5 1 2 <1.0 current 0 7.7 16.6	68 1 472 941 590 752 2384 history1 7 2 1 <7 2 1 <1.0 history1 0.1 11.5 25.7	80 1 492 1072 677 841 2770 history2 28 3 2 <1.0 history2 0.1 14.3 28.8



# **OIL ANALYSIS REPORT**







	VISUAL		method	limit/base	current	history1	history2
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
-	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
	Free Water	scalar	*Visual		NEG	NEG	NEG
	FLUID PROPER	TIES	method	limit/base	current	history1	history2
	Visc @ 100°C	cSt	ASTM D445		8.7	8.4	8.9
	GRAPHS						
	Ferrous Alloys						
	iron						
	nickel						
	25						
	20 15						
				<u> </u>			
	10						
	5						
	0 3	23 -		24			
	Jul6,23	Dec11/23		Mar29/24			
	Jul6/23	1/23		9/24			
		Dec11/23		Mar29/2			
	Viscosity @ 100°	С			Base Number		
	Abnormal			6.0			
				5.0 S	) <b>+</b>		/
	2 Abnormal			(B)HOX But Base Number Base Number	)		/
	(2000) 12 4000000 12			트 철 3.0	)		
	73 10-			Numero 2 (	,		
				Base			
	8-			1.0			
		13					
	6 <del>4  </del>			7/6	7/6	21	
	Jul6/23	Dec11/23		Mar29/24	Jul6/23	Dec11/23	

Certificate To discu

 Unique Number
 : 10965728
 Diagnosed
 : 10 Apr 2024 - Jonathan Hester

 Certificate 12367
 Test Package
 : FLEET (Additional Tests: FuelDilution)

 To discuss this sample report, contact Customer Service at 1-800-237-1369.
 \* - 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)

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