

OIL ANALYSIS REPORT

Sample Rating Trend







FORD 30142

Fluid KENDALL 15W40 (--- QTS)

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

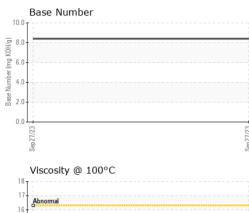
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0867799		
Sample Date		Client Info		27 Sep 2023		
Machine Age	mls	Client Info		180273		
Oil Age	mls	Client Info		2158		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINATIO	N	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
Glycol		WC Method		NEG		
WEAR METALS		mathad	limit/booo	ourroat	biotonut	biotory 0
		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	58		
Chromium	ppm	ASTM D5185m	>20	2		
Nickel	ppm	ASTM D5185m	>2	1		
Titanium	ppm	ASTM D5185m	>2	84		
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm	ASTM D5185m	>25	3		
Lead	ppm	ASTM D5185m	>40	4		
Copper	ppm	ASTM D5185m	>330	3		
Tin	ppm	ASTM D5185m	>15	<1		
Vanadium	ppm	ASTM D5185m		1		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
ADDITIVES Boron	ppm	method ASTM D5185m	limit/base 6.3	current 118	history1	history2
	ppm ppm				· · · · · · · · · · · · · · · · · · ·	
Boron		ASTM D5185m	6.3	118		
Boron Barium	ppm	ASTM D5185m ASTM D5185m	6.3 0.6	118 0		
Boron Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	6.3 0.6	118 0 28		
Boron Barium Molybdenum Manganese	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	6.3 0.6 0.4	118 0 28 <1		
Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	6.3 0.6 0.4 277	118 0 28 <1 524		
Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	6.3 0.6 0.4 277 1514	118 0 28 <1 524 1926	 	
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	6.3 0.6 0.4 277 1514 634	118 0 28 <1 524 1926 1213		
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	6.3 0.6 0.4 277 1514 634 743	118 0 28 <1 524 1926 1213 1388	 	
Boron Barium 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 ASTM D5185m ASTM D5185m	6.3 0.6 0.4 2777 1514 634 743 2592 limit/base	118 0 28 <1 524 1926 1213 1388 4279		
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	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	6.3 0.6 0.4 2777 1514 634 743 2592 limit/base	118 0 28 <1 524 1926 1213 1388 4279 current		
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	6.3 0.6 0.4 2777 1514 634 743 2592 limit/base >25	118 0 28 <1 524 1926 1213 1388 4279 current 10	 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 method ASTM D5185m	6.3 0.6 0.4 2777 1514 634 743 2592 limit/base >25	118 0 28 <1 524 1926 1213 1388 4279 current 10 4	 history1	 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	6.3 0.6 0.4 277 1514 634 743 2592 limit/base >25 >20	118 0 28 <1 524 1926 1213 1388 4279 current 10 4 2	 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	ASTM D5185m ASTM D5185m	6.3 0.6 0.4 277 1514 634 743 2592 Imit/base >25 >20 Imit/base >3	118 0 28 <1 524 1926 1213 1388 4279 current 10 4 2 2	 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	ASTM D5185m ASTM D5185m	6.3 0.6 0.4 277 1514 634 743 2592 Imit/base >25 >20 Imit/base >3	118 0 28 <1 524 1926 1213 1388 4279 <u>current</u> 10 4 2 2 <u>current</u>	 history1 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	6.3 0.6 0.4 277 1514 634 743 2592 limit/base >25 >20 limit/base >3 >20	118 0 28 <1 524 1926 1213 1388 4279 current 10 4 2 current 0.5 9.2	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	6.3 0.6 0.4 277 1514 634 743 2592 imit/base >25 20 imit/base >3 >20 >3 >20	118 0 28 <1 524 1926 1213 1388 4279 current 10 4 2 current 0.5 9.2 21.9	 history1 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 *ASTM D7844	6.3 0.6 0.4 277 1514 634 743 2592 imit/base >25 20 20 imit/base >3 >20 >30	118 0 28 <1 524 1926 1213 1388 4279 <i>current</i> 10 4 2 <i>current</i> 0.5 9.2 21.9	history1 history1 history1 history1	history2 history2 history2 history2 history2 history2 history2



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OIL ANALYSIS REPORT



		VISUAL		method	limit/base	current	history1	history2
		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		
	Sep27/23 .	Appearance	scalar	*Visual	NORML	NORML		
	Sep 2	Odor	scalar	*Visual	NORML	NORML		
°C		Emulsified Water	scalar	*Visual	>0.2	NEG		
		Free Water	scalar	*Visual		NEG		
		FLUID PROPE	RTIES	method	limit/base	current	history1	history2
		Visc @ 100°C	cSt	ASTM D445		14.4		
		GRAPHS						
		Ferrous Alloys						
		60 T						
		50 - iron						
		nickel						
		40						
		톱 30 -						
		20-						
		10-						
		Sep 27/23			Sep 27/23			
					Se			
		Non-ferrous Met	tals					
		copper						
		8 - Internet tin						
		6						
		4						
		2						
		0						
		ep27/23			iep27/23			
		Sep2			Sep2			
		Viscosity @ 100	Viscosity @ 100°C			Paco Numbor	ase Number	
		¹⁸ T						
		17- Abaamal			8.0	-		
		Abnormal 16			(₿ 7.0			
		© 15 -			(6,7.0 WHO & 6.0 But so 10 			
		(2-00 [) 			E 5.0			
					N 3.0	1		
		13 Abnormal			a 2.0			
		12			1.0			
		11			0.0			
		Sep 27/23			Sep 27/23	Sep 27/23		Sep 27/23
		S			Se	Se		Sei
ا (Laboratory	: WearCheck USA	- 501 Madi	son Ave Ca	rv. NC 27513	GREENF	VILLE OIL & PF	TROLEUM INC
	Sample No.	: WC0867799	Received		Nov 2023			DHNSON HWY
	Lab Number	: 05999713	Diagnos	ed : 08	Nov 2023			ENEVILLE, TN
	Unique Number		Diagnost	tician : Dor	n Baldridge			US 37745
	Test Package				-			Contact: SHOP
		contact Customer Se are outside of the ISC				st	iop@burkharte	nterprises.com
		cifications are based or				ICGM 106.2012)		T: F:
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Contact/Location: SHOP ? - GREGRETN