

OIL ANALYSIS REPORT

Sample Rating Trend



FORD 009

Component Diesel Engine Fluid DIESEL ENGINE OIL SAE 15W40 (--- GAL)

DIAGNOSIS

A Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

Contamination

Light fuel dilution occurring. No other contaminants were detected in the oil.

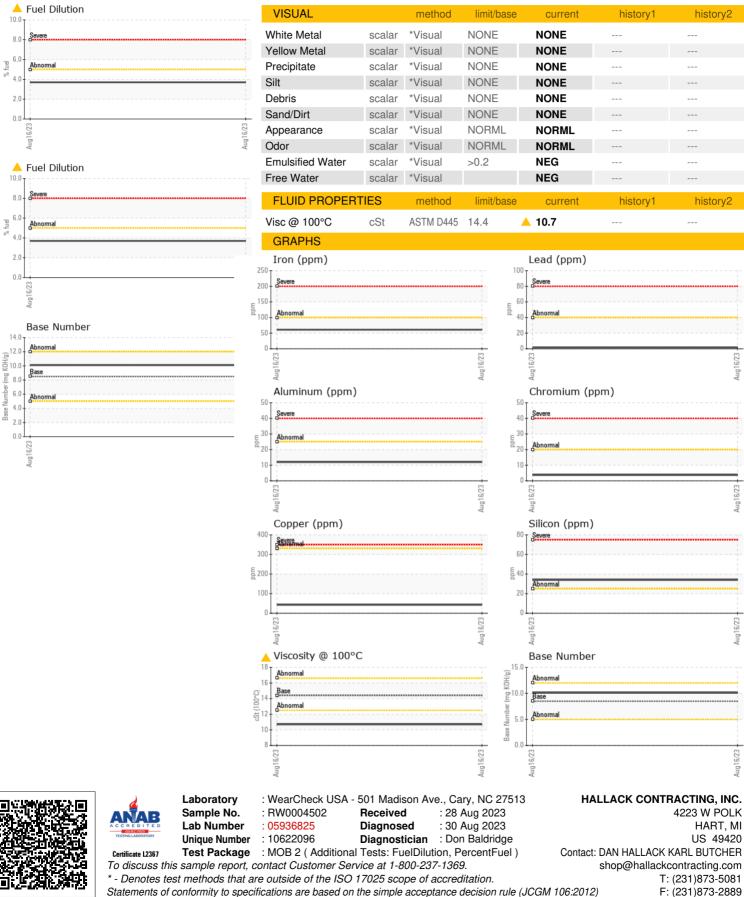
Fluid Condition

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		RW0004502		
Sample Date		Client Info		16 Aug 2023		
Machine Age	mls	Client Info		5762		
Oil Age	mls	Client Info		5762		
Oil Changed		Client Info		Changed		
Sample Status				ATTENTION		
CONTAMINATION	N	method	limit/base	current	history1	history2
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	61		
Chromium	ppm	ASTM D5185m	>20	4		
Nickel	ppm	ASTM D5185m	>2	<1		
Titanium	ppm	ASTM D5185m	>2	<1		
Silver	ppm	ASTM D5185m	>2	13		
Aluminum	ppm	ASTM D5185m	>25	12		
Lead	ppm	ASTM D5185m	>40	1		
Copper	ppm	ASTM D5185m	>330	43		
Tin	ppm	ASTM D5185m	>15	<1		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	63		
Barium	ppm	ASTM D5185m	10	4		
Molybdenum	ppm	ASTM D5185m	100	<1		
Manganese	ppm	ASTM D5185m		5		
Magnesium	ppm	ASTM D5185m	450	821		
Calcium	ppm	ASTM D5185m	3000	1434		
Phosphorus	ppm	ASTM D5185m	1150	1174		
Zinc	ppm	ASTM D5185m	1350	1372		
Sulfur	ppm	ASTM D5185m	4250	4890		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	34		
Sodium	ppm	ASTM D5185m	>158	9		
Potassium	ppm	ASTM D5185m	>20	8		
Fuel	%	ASTM D3524	>5	A 3.7		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2		
Nitration	Abs/cm	*ASTM D7624	>20	9.1		
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.5		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.4		
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	10.10		
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Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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