

OIL ANALYSIS REPORT

Sample Rating Trend

FUEL

Machine Id

FORD S1-1125

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

DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Wear

Metal levels are typical for a new component breaking in.

Contamination

There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

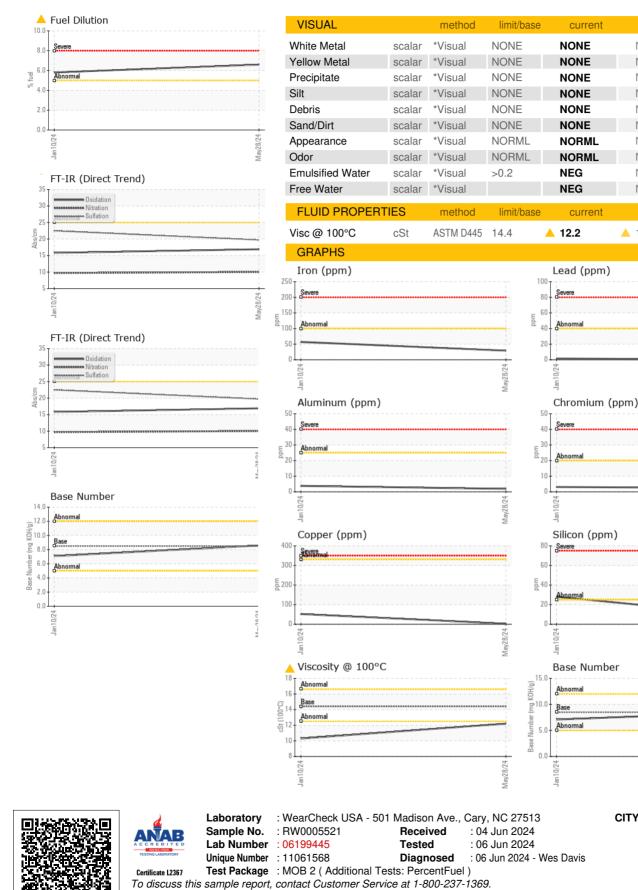
Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

Sample Number Client Info RW0005521 RW0004814 Sample Date Client Info 28 May 202 10 Jan 202 Machine Age mis Client Info 12453 4192 Oil Age mis Client Info 4333 4192 Oil Changed Client Info Changed Changed CONTAMINATION method Imit/base current history history CONTAMINATION wC Method >0.2 NEG NEG CONTAMINATION WC Method >0.2 NEG NEG Water WC Method >0.2 NEG NEG Inron ppm ASTM 05155 >20 2 3 Nickel ppm ASTM 05155 >2 0 -1 Sliver ppm ASTM 05155 >2 0 Sliver ppm ASTM 05155 >2 1 11 Sliver ppm ASTM 05155 >2 1 1 Sliver ppm ASTM 05155 >2 1 Sliver	SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Machine AgemisClient Info124534192Oil AgageMisClient Info4353Al92Sample StatusIIImil/basChangedSample StatusMitImil/bascurrentIstory!Istory!CONTAMINATIOWC Method0.2NEGNEGWaterVC Method0.2NEGNEGWEAR METALSWC Method2957NickelpmASTM DESitis>202131.00NickelpmASTM DESitis>20NickelpmASTM DESitis>20MuminumpmASTM DESitis>211JuminumpmASTM DESitis>211AduminumpmASTM DESitis>211AduminumpmASTM DESitis>211AduminumpmASTM DESitis>211AduminumpmASTM DESitis>211AduminumpmASTM DESitis>211AduminumpmASTM DESitis24AduminumpmASTM DESitis10AduminumpmASTM DESitis11AduminumpmASTM DESitis <th>Sample Number</th> <th></th> <th>Client Info</th> <th></th> <th>RW0005521</th> <th>RW0004814</th> <th></th>	Sample Number		Client Info		RW0005521	RW0004814	
Oil Age mis Client Info 4353 4192 Oil Changed Client Info Changed ABNORMAL ABNORMAL Sample Status Image Image current ABNORMAL CONTAMINATION method Imit/base current history1 history2 Water WC Method >0.2 NEG NEG WEAR METALS method Imit/base current history1 history2 Iron ppm ASTM D5185m >20 2 3 Chromium ppm ASTM D5185m >20 2 3 Silver ppm ASTM D5185m >2 0 -1 11 Auminum ppm ASTM D5185m >2 2 4 Auminum ppm ASTM D5185m >330 3 52 Auminum ppm ASTM D5185m >30 0	Sample Date		Client Info		28 May 2024	10 Jan 2024	
Oli Changed Client Info Changed Changed ABNORMAL ABNORMAL Sample Status Image Image current History1 History2 Water WC Method >0.2 NEG NEG Glycol WC Method NEG NEG WEAR METALS method Imil/base current History1 Chromium ppm ASTM D5185m >100 29 57 Chromium ppm ASTM D5185m >20 2 3 Chromium ppm ASTM D5185m >2 0 <1	Machine Age	mls	Client Info		12453	4192	
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Titanium ppm ASTM D5185m >2 0 <1 Silver ppm ASTM D5185m >2 <1	Chromium	ppm	ASTM D5185m	>20	2	3	
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Sodium ppm ASTM D5185m >158 6 11 Potassium ppm ASTM D5185m >20 <1 8 Fuel % ASTM D3524 >5 ▲ 6.6 ▲ 5.8 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.5 0.4 Nitration Abs/cm *ASTM D7624 >20 10.0 9.7 Sulfation Abs/.1mm *ASTM D7615 >30 19.7 22.5 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 16.9 15.8	CONTAMINANTS		method	limit/base	current	history1	history2
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Fuel % ASTM D3524 >5 6.6 5.8 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.5 0.4 Nitration Abs/cm *ASTM D7624 >20 10.0 9.7 Sulfation Abs/.1mm *ASTM D7415 >30 19.7 22.5 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 16.9 15.8	Sodium	ppm	ASTM D5185m	>158	6	11	
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Soot % % *ASTM D7844 >3 0.5 0.4 Nitration Abs/cm *ASTM D7624 >20 10.0 9.7 Sulfation Abs/.1mm *ASTM D7415 >30 19.7 22.5 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 16.9 15.8	Fuel	%	ASTM D3524	>5	<mark>▲</mark> 6.6	<mark>▲</mark> 5.8	
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FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 16.9 15.8	Nitration	Abs/cm	*ASTM D7624	>20	10.0	9.7	
Oxidation Abs/.1mm *ASTM D7414 >25 16.9 15.8	Sulfation	Abs/.1mm	*ASTM D7415	>30	19.7	22.5	
	FLUID DEGRADAT	ION	method	limit/base	current	history1	history2
Base Number (BN) mg KOH/g ASTM D2896 8.5 8.57 7.09	Oxidation	Abs/.1mm	*ASTM D7414	>25	16.9	15.8	
	Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.57	7.09	



OIL ANALYSIS REPORT



* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

CITY OF FARMINGTON HILLS 27245 HALSTED RD FARMINGTON HILLS, MI US 48331 Contact: JERRY BROCK jbrock@fhgov.com T: (248)871-2850 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) E:

Report Id: CITFARMI [WUSCAR] 06199445 (Generated: 06/06/2024 23:26:18) Rev: 1

Contact/Location: JERRY BROCK - CITFARMI

history1

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

history

NFG

NEG

10.3

history2

history