

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

FORD 605

Component Diesel Engine Fluid DIESEL ENGINE OIL SAE 5W40 (--- QTS)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the oil.

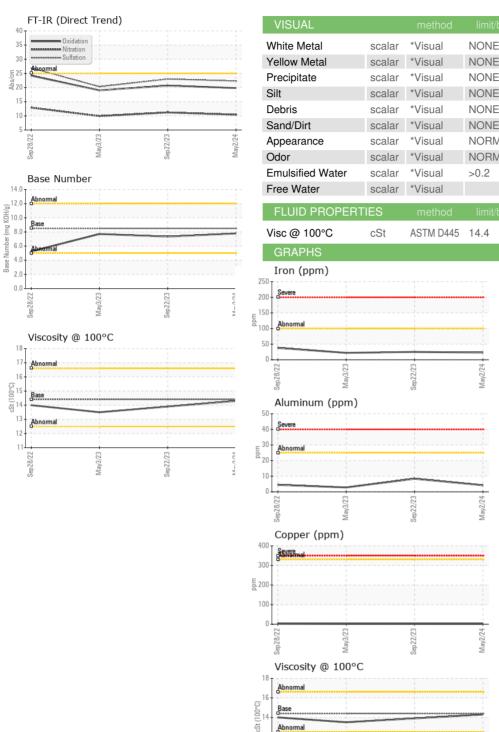
Fluid Condition

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		RW0004750	RW0004783	RW0004319
Sample Date		Client Info		02 May 2024	22 Sep 2023	03 May 2023
Machine Age	mls	Client Info		43005	0	39734
Oil Age	mls	Client Info		0	2086	1218
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	۷	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
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	>100	23	25	22
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	<1	0	<1
Titanium	ppm	ASTM D5185m	>2	<1	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	4	8	3
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	2	2	2
Tin	ppm	ASTM D5185m	>15	<1	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
ADDITIVES Boron	ppm	method ASTM D5185m	limit/base 250	current 154	history1 150	history2 143
	ppm ppm					
Boron		ASTM D5185m	250	154	150	143
Boron Barium	ppm	ASTM D5185m ASTM D5185m	250 10	154 0	150 0	143 0
Boron Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	250 10	154 0 2	150 0 3 0 102	143 0 <1
Boron Barium Molybdenum Manganese	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	250 10 100	154 0 2 <1	150 0 3 0	143 0 <1 <1
Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	250 10 100 450	154 0 2 <1 99	150 0 3 0 102 2029 1001	143 0 <1 <1 77 1904 932
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	250 10 100 450 3000	154 0 2 <1 99 2018	150 0 3 0 102 2029	143 0 <1 <1 77 1904
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	250 10 100 450 3000 1150	154 0 2 <1 99 2018 1017	150 0 3 0 102 2029 1001	143 0 <1 <1 77 1904 932
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	250 10 100 450 3000 1150 1350	154 0 2 <1 99 2018 1017 1147	150 0 3 0 102 2029 1001 1184	143 0 <1 <1 77 1904 932 1058
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	250 10 100 450 3000 1150 1350 4250	154 0 2 <1 99 2018 1017 1147 3981 current 6	150 0 3 0 102 2029 1001 1184 3463	143 0 <1 <1 77 1904 932 1058 3377
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	250 10 100 450 3000 1150 1350 4250	154 0 2 <1 99 2018 1017 1147 3981 current	150 0 3 0 102 2029 1001 1184 3463 history1	143 0 <1 <1 77 1904 932 1058 3377 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	250 10 100 450 3000 1150 1350 4250 Limit/base	154 0 2 <1 99 2018 1017 1147 3981 current 6	150 0 3 0 102 2029 1001 1184 3463 history1 8	143 0 <1 <1 77 1904 932 1058 3377 history2 7
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	250 10 100 450 3000 1150 1350 4250 limit/base >25 >44	154 0 2 <1 99 2018 1017 1147 3981 <u>current</u> 6 5	150 0 3 0 102 2029 1001 1184 3463 history1 8 6	143 0 <1 <1 77 1904 932 1058 3377 history2 7 4
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	250 10 100 450 3000 1150 1350 4250 limit/base >25 >44 >20	154 0 2 <1 99 2018 1017 1147 3981 current 6 5 3	150 0 3 0 102 2029 1001 1184 3463 history1 8 6 6 <1	143 0 <1 <1 77 1904 932 1058 3377 history2 7 4 3
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	250 10 100 450 3000 1150 1350 4250 limit/base >25 >44 >20 limit/base >3	154 0 2 <1 99 2018 1017 1147 3981 current 6 5 3 3	150 0 3 0 102 2029 1001 1184 3463 history1 8 6 <1 8	143 0 <1 <1 77 1904 932 1058 3377 history2 7 4 3 3
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot %	ppm	ASTM D5185m ASTM D5185m	250 10 100 450 3000 1150 1350 4250 limit/base >25 >44 >20 limit/base >3	154 0 2 <1 99 2018 1017 1147 3981 <u>current</u> 6 5 3 3 <u>current</u> 0.4	150 0 3 0 102 2029 1001 1184 3463 history1 8 6 <1 8 6 <1 0.4	143 0 <1 <1 77 1904 932 1058 3377 history2 7 4 3 3 history2 0.2
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	250 10 100 450 3000 1150 1350 4250 20 imit/base >25 >44 >20 imit/base	154 0 2 <1 99 2018 1017 1147 3981 <u>current</u> 6 5 3 <u>current</u> 0.4 10.4	150 0 3 0 102 2029 1001 1184 3463 history1 8 6 <1 8 6 <1 history1 0.4 11.2	143 0 <1 <1 77 1904 932 1058 3377 history2 7 4 3 3 history2 0.2 9.9
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	250 10 100 450 3000 1150 1350 4250 imit/base >25 >44 >20 imit/base >3 >20 >30	154 0 2 <1 99 2018 1017 1147 3981 <u>current</u> 6 5 3 <u>current</u> 0.4 10.4 22.3	150 0 3 0 102 2029 1001 1184 3463 history1 8 6 <1 kistory1 0.4 11.2 23.0	143 0 <1 <1 77 1904 932 1058 3377 history2 7 4 3 history2 0.2 9.9 20.3



OIL ANALYSIS REPORT



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Sep28/22.

NONE NORML NORML NORML NORML NORML NORML NORML NORML >0.2 NEG NEG NEG NEG NEG NEG 14.4 14.3 13.9 13.5 Lead (ppm) 100 80 60 ppm 40 20 en22/73 1=12/22 Chromium (ppm) 50 40 31 10 0 en28/ Silicon (ppm) 80 60 ۲ 40 20 Aav7/74 Base Number 15. mg KOH/g) 10 5. Base 0.0 May2/24 -Sep28/22 Mav3/23 Sep 22/23

NONE

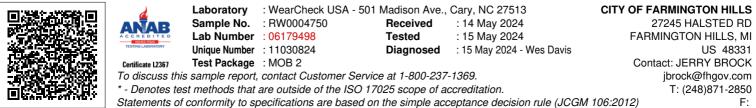
NONE

NONE

NONE

NONE

NONE



Sen22/23

Mav3/23

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Contact/Location: JERRY BROCK - CITFARMI