

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



FORD 805 (S/N 1FDXE4FN5NDC35760)

Gasoline Engine

MOTORCRAFT SUPER PREMIUM SAE 5W30 (8 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

Fluid Condition

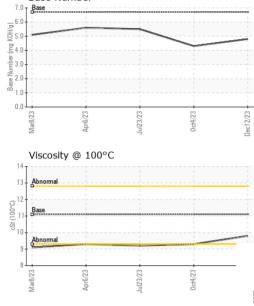
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sample Number Client Info PCA0112898 PCA0105367 PCA009787 PCA00978 PCA009787 PCA009787	30 (8 GAL)		Mar2023	Apr2023	Jul2023 Oct2023	Dec2023	
Client Info	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Machine Age mls Client Info 11495 10008 7536	Sample Number		Client Info		PCA0112898	PCA0105367	PCA0097974
Oil Age mls Client Info 1487 2472 1660 Oil Changed Sample Status Client Info Changed Changed Changed Changed Changed Changed Changed NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL Changed Changed Changed Changed Changed Changed Changed NORMAL NOR	Sample Date		Client Info		12 Dec 2023	04 Oct 2023	23 Jul 2023
Oil Changed Sample Status Client Info Changed NORMAL Changed NEG NoE <	Machine Age	mls	Client Info		11495	10008	7536
NORMAL NORMAL NORMAL CONTAMINATION method fimit/base current history1 history2	Oil Age	mls	Client Info		1487	2472	1660
Fuel	Oil Changed		Client Info		Changed	Changed	Changed
Fuel	Sample Status				NORMAL	NORMAL	NORMAL
Water WC Method >0.2 NEG NEG NEG Glycol WC Method Imit/base current history1 history2 WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >150 3 7 4 Chromium ppm ASTM D5185m >20 <1	CONTAMINAT	ION	method	limit/base	current	history1	history2
WEAR METALS	Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
WEAR METALS	Water		WC Method	>0.2	NEG	NEG	NEG
Irron	Glycol		WC Method		NEG	NEG	NEG
Chromium ppm ASTM D5185m >20 <1 <1 <1 Nickel ppm ASTM D5185m >5 <1	WEAR METAL	.S	method	limit/base	current	history1	history2
Nickel	Iron	ppm	ASTM D5185m	>150	3	7	4
Silver	Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Silver	Nickel	ppm	ASTM D5185m	>5	<1	<1	0
Aluminum ppm ASTM D5185m >40 2 4 2 Lead ppm ASTM D5185m >50 0 <1	Titanium	ppm	ASTM D5185m		<1	<1	<1
Lead	Silver	ppm	ASTM D5185m	>2		0	0
Copper ppm ASTM D5185m >155 <1 2 2 Tin ppm ASTM D5185m >10 0 0 0 Vanadium ppm ASTM D5185m 0 0 0 -1 Cadmium ppm ASTM D5185m 0 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 98 43 93 Barium ppm ASTM D5185m 0 0 0 Molybdenum ppm ASTM D5185m 66 79 78 Manganese ppm ASTM D5185m 0 0 <1	Aluminum	ppm	ASTM D5185m	>40	2	4	2
Tin	Lead	ppm	ASTM D5185m	>50	0	<1	0
Vanadium ppm ASTM D5185m 0 0 <1 Cadmium ppm ASTM D5185m 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 98 43 93 Barium ppm ASTM D5185m 0 0 0 Molybdenum ppm ASTM D5185m 66 79 78 Manganese ppm ASTM D5185m 0 0 <1 Magnesium ppm ASTM D5185m 477 552 584 Calcium ppm ASTM D5185m 1083 1007 1076 Phosphorus ppm ASTM D5185m 662 693 741 Zinc ppm ASTM D5185m 2972 3266 3490 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >30 13 1	Copper	ppm	ASTM D5185m	>155	<1	2	2
Cadmium ppm ASTM D5185m 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 98 43 93 Barium ppm ASTM D5185m 0 0 0 Molybdenum ppm ASTM D5185m 66 79 78 Manganese ppm ASTM D5185m 0 0 <1	Tin	ppm	ASTM D5185m	>10	0	0	0
ADDITIVES	Vanadium	ppm	ASTM D5185m		0	0	<1
Boron	Cadmium	ppm	ASTM D5185m		0	0	0
Barium ppm ASTM D5185m 0 0 0 Molybdenum ppm ASTM D5185m 66 79 78 Manganese ppm ASTM D5185m 0 0 <1	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5185m 66 79 78 Manganese ppm ASTM D5185m 0 0 <1 Magnesium ppm ASTM D5185m 477 552 584 Calcium ppm ASTM D5185m 1083 1007 1076 Phosphorus ppm ASTM D5185m 662 693 741 Zinc ppm ASTM D5185m 758 861 863 Sulfur ppm ASTM D5185m 2972 3266 3490 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >30 13 19 11 Sodium ppm ASTM D5185m >400 4 7 5 Potassium ppm ASTM D5185m >20 2 2 0 INFRA-RED method limit/base current history1 history2 Soot % % *AS	Boron	ppm	ASTM D5185m		98	43	93
Manganese ppm ASTM D5185m 0 0 <1 Magnesium ppm ASTM D5185m 477 552 584 Calcium ppm ASTM D5185m 1083 1007 1076 Phosphorus ppm ASTM D5185m 662 693 741 Zinc ppm ASTM D5185m 758 861 863 Sulfur ppm ASTM D5185m 2972 3266 3490 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >30 13 19 11 Sodium ppm ASTM D5185m >400 4 7 5 Potassium ppm ASTM D5185m >20 2 2 0 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 0.1 0 0.1 Nitration Abs/.1mm <td>Barium</td> <td>ppm</td> <td>ASTM D5185m</td> <td></td> <td>0</td> <td>0</td> <td>0</td>	Barium	ppm	ASTM D5185m		0	0	0
Magnesium ppm ASTM D5185m 477 552 584 Calcium ppm ASTM D5185m 1083 1007 1076 Phosphorus ppm ASTM D5185m 662 693 741 Zinc ppm ASTM D5185m 758 861 863 Sulfur ppm ASTM D5185m 2972 3266 3490 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >30 13 19 11 Sodium ppm ASTM D5185m >400 4 7 5 Potassium ppm ASTM D5185m >20 2 2 0 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 0.1 0 0.1 Nitration Abs/cm *ASTM D7624 >20 8.0 10.2 8.0 Sulfation	Molybdenum	ppm			66	79	78
Calcium ppm ASTM D5185m 1083 1007 1076 Phosphorus ppm ASTM D5185m 662 693 741 Zinc ppm ASTM D5185m 758 861 863 Sulfur ppm ASTM D5185m 2972 3266 3490 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >30 13 19 11 Sodium ppm ASTM D5185m >400 4 7 5 Potassium ppm ASTM D5185m >20 2 2 0 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 0.1 0 0.1 Nitration Abs/cm *ASTM D7624 >20 8.0 10.2 8.0 Sulfation Abs/.1mm *ASTM D7415 >30 18.1 22.8 18.4	Manganese	ppm	ASTM D5185m		0	0	<1
Phosphorus ppm ASTM D5185m 662 693 741 Zinc ppm ASTM D5185m 758 861 863 Sulfur ppm ASTM D5185m 2972 3266 3490 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >30 13 19 11 Sodium ppm ASTM D5185m >400 4 7 5 Potassium ppm ASTM D5185m >20 2 2 0 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 0.1 0 0.1 Nitration Abs/cm *ASTM D7624 >20 8.0 10.2 8.0 Sulfation Abs/.1mm *ASTM D7415 >30 18.1 22.8 18.4 FLUID DEGRADATION method limit/base current history1	Magnesium	ppm	ASTM D5185m		477	552	584
Zinc ppm ASTM D5185m 758 861 863 Sulfur ppm ASTM D5185m 2972 3266 3490 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >30 13 19 11 Sodium ppm ASTM D5185m >400 4 7 5 Potassium ppm ASTM D5185m >20 2 2 0 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 0.1 0 0.1 Nitration Abs/cm *ASTM D7624 >20 8.0 10.2 8.0 Sulfation Abs/.1mm *ASTM D7415 >30 18.1 22.8 18.4 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 13.0	Calcium	ppm	ASTM D5185m		1083	1007	1076
Sulfur ppm ASTM D5185m 2972 3266 3490 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >30 13 19 11 Sodium ppm ASTM D5185m >400 4 7 5 Potassium ppm ASTM D5185m >20 2 2 0 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 0.1 0 0.1 Nitration Abs/cm *ASTM D7624 >20 8.0 10.2 8.0 Sulfation Abs/.1mm *ASTM D7415 >30 18.1 22.8 18.4 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 13.0 17.9 11.8	Phosphorus	ppm	ASTM D5185m		662		741
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >30 13 19 11 Sodium ppm ASTM D5185m >400 4 7 5 Potassium ppm ASTM D5185m >20 2 2 0 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 0.1 0 0.1 Nitration Abs/cm *ASTM D7624 >20 8.0 10.2 8.0 Sulfation Abs/.1mm *ASTM D7415 >30 18.1 22.8 18.4 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 13.0 17.9 11.8	Zinc	ppm	ASTM D5185m		758	861	863
Silicon ppm ASTM D5185m >30 13 19 11 Sodium ppm ASTM D5185m >400 4 7 5 Potassium ppm ASTM D5185m >20 2 2 2 0 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 0.1 0 0.1 Nitration Abs/cm *ASTM D7624 >20 8.0 10.2 8.0 Sulfation Abs/.1mm *ASTM D7415 >30 18.1 22.8 18.4 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 13.0 17.9 11.8	Sulfur	ppm	ASTM D5185m		2972	3266	3490
Sodium ppm ASTM D5185m >400 4 7 5 Potassium ppm ASTM D5185m >20 2 2 0 INFRA-RED method limit/base current history1 history2 Soot % *ASTM D7844 0.1 0 0.1 Nitration Abs/cm *ASTM D7624 >20 8.0 10.2 8.0 Sulfation Abs/.1mm *ASTM D7415 >30 18.1 22.8 18.4 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 13.0 17.9 11.8	CONTAMINAN	ITS	method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m >20 2 2 0 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 0.1 0 0.1 Nitration Abs/cm *ASTM D7624 >20 8.0 10.2 8.0 Sulfation Abs/.1mm *ASTM D7415 >30 18.1 22.8 18.4 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 13.0 17.9 11.8	Silicon	ppm	ASTM D5185m	>30	13	19	11
INFRA-RED	Sodium	ppm	ASTM D5185m	>400	4	7	5
Soot % % *ASTM D7844 0.1 0 0.1 Nitration Abs/cm *ASTM D7624 >20 8.0 10.2 8.0 Sulfation Abs/.1mm *ASTM D7415 >30 18.1 22.8 18.4 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 13.0 17.9 11.8	Potassium	ppm	ASTM D5185m	>20	2	2	0
Nitration Abs/cm *ASTM D7624 >20 8.0 10.2 8.0 Sulfation Abs/.1mm *ASTM D7415 >30 18.1 22.8 18.4 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 13.0 17.9 11.8	INFRA-RED		method	limit/base	current	history1	history2
Sulfation Abs/.1mm *ASTM D7415 >30 18.1 22.8 18.4 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 13.0 17.9 11.8	Soot %	%	*ASTM D7844		0.1	0	0.1
FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 13.0 17.9 11.8	Nitration	Abs/cm	*ASTM D7624	>20	8.0	10.2	8.0
Oxidation Abs/.1mm *ASTM D7414 >25 13.0 17.9 11.8	Sulfation	Abs/.1mm	*ASTM D7415	>30		22.8	18.4
	FLUID DEGRAI	OITAC	method	limit/base	current	history1	history2
Base Number (BN) mg KOH/g ASTM D2896 6.7 4.8 4.3 5.5	Oxidation	Abs/.1mm	*ASTM D7414	>25	13.0	17.9	11.8
	Base Number (BN)	mg KOH/g	ASTM D2896	6.7	4.8	4.3	5.5



Base Number

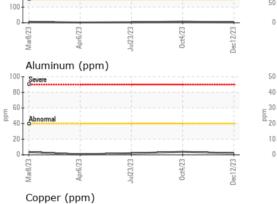
OIL ANALYSIS REPORT

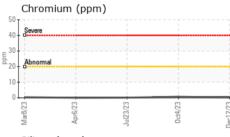


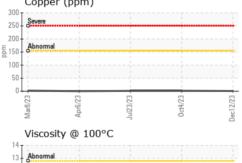
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate s	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance sca	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 PROPE	RTIES	method	limit/hase	current	history1	history2

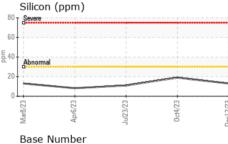
	FLUID FROM	ENTIES	memou			HISTOLAL	HISTOLY
	Visc @ 100°C	cSt	ASTM D445	11.1	9.8	9.3	9.2
	GRAPHS						
	Iron (ppm)				Lead (ppm)		
4	Severe				Severe	!	

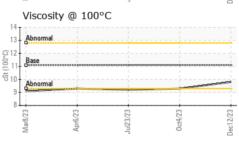
[100

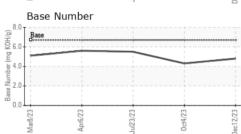














Certificate L2367

Laboratory Sample No.

Lab Number **Unique Number**

300

: PCA0112898 : 06039069 : 10794298

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved Diagnosed

: 19 Dec 2023 : 20 Dec 2023 Diagnostician : Wes Davis

Test Package : MOB 1 (Additional Tests: TBN)

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)

VILLAGE OF NORTH RIVERSIDE

2345 S DESPLAINES NORTH RIVERSIDE, IL US 60546

Contact: Service Manager vznrdpw@gmail.com

T: F: