

## **OIL ANALYSIS REPORT**

### Area OKLAHOMA 2000 FORD 9293-T213

Diesel Engine

MYSTIK JT-8 SYN SUPER HD 15W40 (5 GAL)

#### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

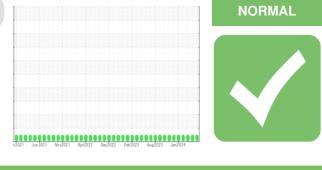
All component wear rates are normal.

#### 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.

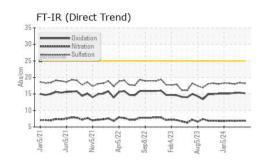


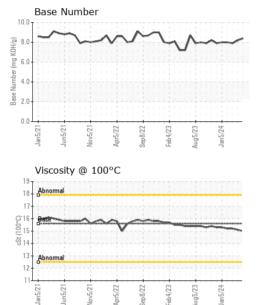
Sample Rating Trend

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0929935	WC0899610	WC0899616
Sample Date		Client Info		06 May 2024	09 Apr 2024	06 Mar 2024
Machine Age	mls	Client Info		109586	109566	109410
Oil Age	mls	Client Info		13771	13751	13395
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	١	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	16	15	16
Chromium	ppm	ASTM D5185m	>20	2	2	2
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	3	3	2
Lead	ppm	ASTM D5185m	>40	2	<1	1
Copper	ppm	ASTM D5185m	>330	2	<1	1
Tin	ppm	ASTM D5185m	>15	1	<1	0
Vanadium	ppm	ASTM D5185m		<1	0	0
0 1 1						0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES	ppm	method	limit/base	<1 current	0 history1	0 history2
	ppm		limit/base			
ADDITIVES		method	limit/base	current	history1	history2
ADDITIVES Boron	ppm	method ASTM D5185m	limit/base	current 0	history1 8	history2 0
ADDITIVES Boron Barium	ppm ppm	method ASTM D5185m ASTM D5185m	limit/base	current 0 0	history1 8 0	history2 0 0
ADDITIVES Boron Barium Molybdenum	ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	current 0 0 31	history1 8 0 31	history2 0 0 31
ADDITIVES Boron Barium Molybdenum Manganese	ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	current 0 0 31 <1	history1 8 0 31 <1	history2 0 0 31 0
ADDITIVES Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	Current 0 0 31 <1 765	history1 8 0 31 <1 900	history2 0 0 31 0 889
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	current           0           0           31           <1           765           1300	history1 8 0 31 <1 900 1419	history2 0 0 31 0 889 1462
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	current           0           0           31           <1           765           1300           980	history1           8           0           31           <1           900           1419           1183	history2 0 31 0 889 1462 1144
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm ppm	method           ASTM D5185m	limit/base	current           0           0           31           <1           765           1300           980           1209	history1           8           0           31           <1           900           1419           1183           1388	history2           0           31           0           889           1462           1144           1385
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		Current 0 0 31 <1 765 1300 980 1209 3454	history1           8           0           31           <1           900           1419           1183           1388           4065	history2 0 31 0 889 1462 1144 1385 4148
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	current         0         0         31         <1         765         1300         980         1209         3454         current	history1         8         0         31         <1         900         1419         1183         1388         4065         history1	history2         0         31         0         889         1462         1144         1385         4148         history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method           ASTM D5185m	limit/base	current           0           0           31           <1           765           1300           980           1209           3454           current           6	history1         8         0         31         <1         900         1419         1183         1388         4065         history1         4	history2         0         31         0         889         1462         1144         1385         4148         history2         3
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method           ASTM D5185m	limit/base	current           0           0           31           <1           765           1300           980           1209           3454           current           6           5	history1         8         0         31         <1         900         1419         1183         1388         4065         history1         4         5	history2         0         31         0         889         1462         1144         1385         4148         history2         3         5
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method           ASTM D5185m	limit/base >25 >20	current           0           0           31           <1           765           1300           980           1209           3454           current           6           5           6           5           6	history1         8         0         31         <1         900         1419         1183         1388         4065         history1         4         5         4	history2         0         31         0         889         1462         1144         1385         4148         history2         3         5         4
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method           ASTM D5185m	limit/base >25 >20 limit/base	current         0         31         <1         765         1300         980         1209         3454         current         6         5         6         5         6         5         6         5         6         5         6	history1         8         0         31         <1         900         1419         1183         1388         4065         history1         4         5         4         5         4         5         4         history1	history2         0         31         0         889         1462         1144         1385         4148         history2         3         5         4         history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot %	ppm	method           ASTM D5185m	limit/base >25 >20 limit/base >3	current         0         0         31         <1         765         1300         980         1209         3454         current         6         5         6         5         6         5         6         0.2	history1         8         0         31         <1         900         1419         1183         1388         4065         history1         4         5         4         5         4         0.2	history2         0         31         0         889         1462         1144         1385         4148         history2         3         5         4         history2         0         0         0         0         0         41         1385         41         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         13         14         15         4         16         17         18         19         10         10
ADDITIVES 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	method           ASTM D5185m	limit/base >25 >20 limit/base >3 >20	current           0           0           31           <1           765           1300           980           1209           3454           current           6           5           6           current           0.2           6.9	history1         8         0         31         <1         900         1419         1183         1388         4065         history1         4         5         4         5         4         0.2         6.9	history2         0         31         0         889         1462         1144         1385         4148         history2         3         5         4         history2         0.2         6.8
ADDITIVES 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	method           ASTM D5185m           ASTM D5185m	limit/base >25 >20 limit/base >3 >20 >3 >20 >30	current         0         31         <1         765         1300         980         1209         3454         current         6         5         6         5         6         5.         6.         0.2         6.9         18.2	history1         8         0         31         <1         900         1419         1183         1388         4065         history1         4         5         4         0.2         6.9         18.4	history2         0         31         0         889         1462         1144         1385         4148         history2         3         5         4         history2         0.2         6.8         18.0

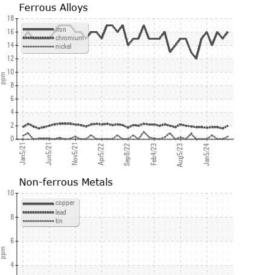


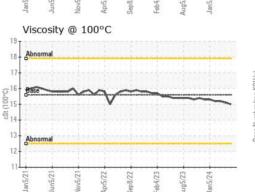
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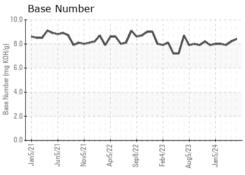




VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	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 PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.6	15.0	15.1	15.2
CDADUS						







Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 LIBERTY DISPOSAL Sample No. : WC0929935 6401 S EASTERN AVE Received : 13 May 2024 Lab Number : 06178195 Tested : 14 May 2024 OKLAHOMA CITY, OK Unique Number : 11029521 Diagnosed : 14 May 2024 - Wes Davis US 73149 Test Package : FLEET Contact: M Rutherford Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. M.Rutherford@ldi89.com \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: 

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Report Id: SEAOKL [WUSCAR] 06178195 (Generated: 05/14/2024 16:46:26) Rev: 1

Submitted By: CHRISTINA HANKS

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