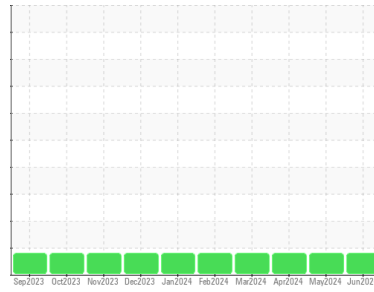




# OIL ANALYSIS REPORT

Area  
**OKLAHOMA**  
 Machine Id  
**7269**  
 Component  
**Diesel Engine**  
 Fluid  
**MYSTIK JT-8 SYN SUPER HD 15W40 (--- GAL)**

Sample Rating Trend



## DIAGNOSIS

- Recommendation**  
No corrective action is recommended at this time. Resample at the next service interval to monitor.
- Wear**  
Valve wear is indicated.
- 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 INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0935470</b>	WC0929923	WC0929931
Sample Date	Client Info		<b>08 Jun 2024</b>	06 May 2024	09 Apr 2024
Machine Age	hrs	Client Info	<b>5888</b>	5675	5533
Oil Age	hrs	Client Info	<b>5588</b>	5375	5233
Oil Changed	Client Info		<b>Not Chngd</b>	Not Chngd	Not Chngd
Sample Status			<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<b>&lt;1.0</b>	<1.0	<1.0
Water	WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol	WC Method		<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	<b>76</b>	78	75
Chromium	ppm	ASTM D5185m >20	<b>3</b>	3	2
Nickel	ppm	ASTM D5185m >4	<b>▲ 11</b>	▲ 12	▲ 10
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	0
Silver	ppm	ASTM D5185m >3	<b>&lt;1</b>	<1	<1
Aluminum	ppm	ASTM D5185m >20	<b>4</b>	4	4
Lead	ppm	ASTM D5185m >40	<b>&lt;1</b>	1	<1
Copper	ppm	ASTM D5185m >330	<b>9</b>	12	10
Tin	ppm	ASTM D5185m >15	<b>2</b>	3	3
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	<1	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>7</b>	<1	3
Barium	ppm	ASTM D5185m	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	<b>50</b>	48	45
Manganese	ppm	ASTM D5185m	<b>2</b>	2	2
Magnesium	ppm	ASTM D5185m	<b>968</b>	906	1008
Calcium	ppm	ASTM D5185m	<b>1385</b>	1310	1418
Phosphorus	ppm	ASTM D5185m	<b>1131</b>	1127	1249
Zinc	ppm	ASTM D5185m	<b>1392</b>	1365	1507
Sulfur	ppm	ASTM D5185m	<b>2911</b>	2897	3128

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>9</b>	10	9
Sodium	ppm	ASTM D5185m	<b>26</b>	26	25
Potassium	ppm	ASTM D5185m >20	<b>6</b>	10	6

## INFRA-RED

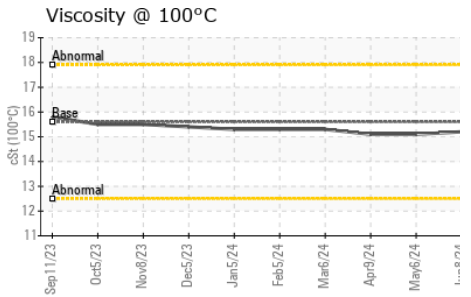
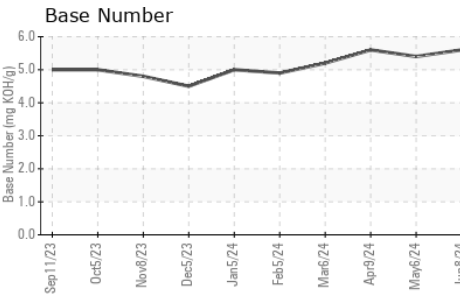
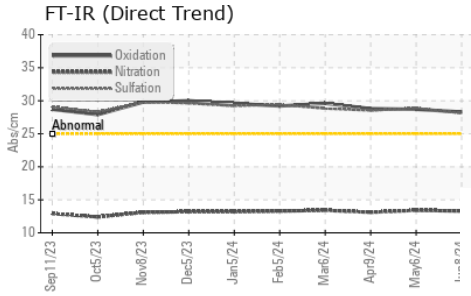
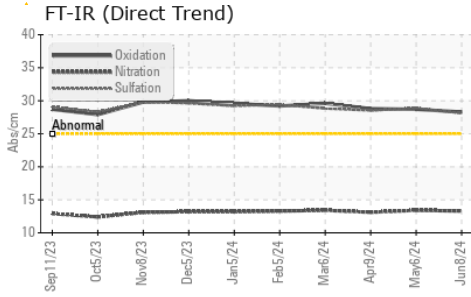
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>1.2</b>	1.2	1.2
Nitration	Abs/cm	*ASTM D7624 >20	<b>13.3</b>	13.4	13.1
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>28.1</b>	28.9	28.5

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>28.3</b>	28.7	28.8
Base Number (BN)	mg KOH/g	ASTM D2896	<b>5.6</b>	5.4	5.6



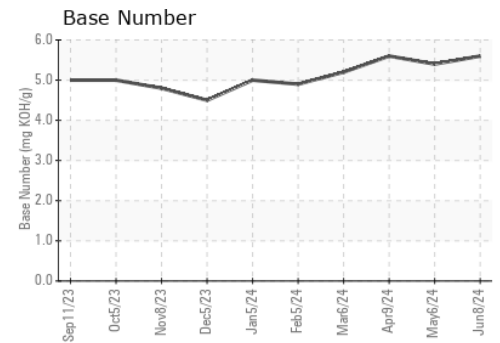
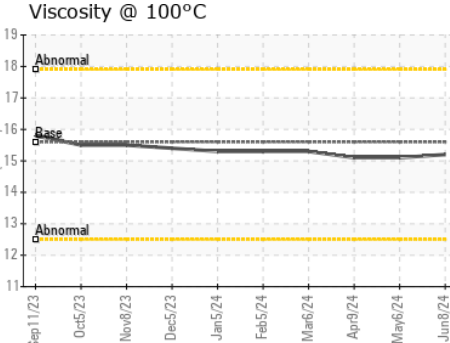
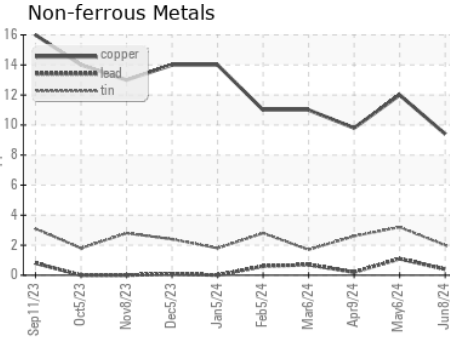
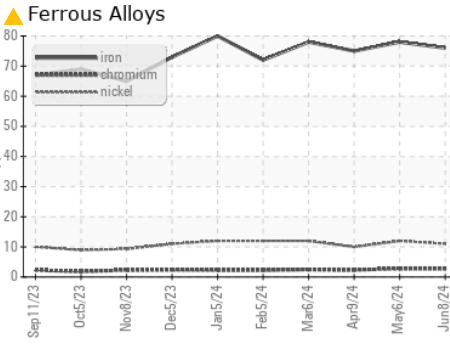
# OIL ANALYSIS REPORT



PARAMETER	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.6	15.2	15.1

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0935470  
**Lab Number** : 06211160  
**Unique Number** : 11084024  
**Test Package** : FLEET

**Received** : 14 Jun 2024  
**Tested** : 19 Jun 2024  
**Diagnosed** : 19 Jun 2024 - Sean Felton

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)

**LIBERTY DISPOSAL**  
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