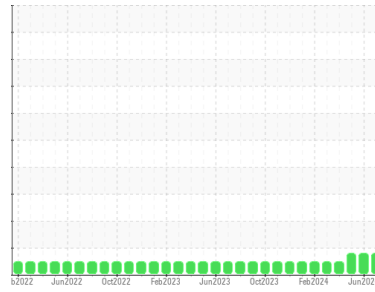




# OIL ANALYSIS REPORT

Sample Rating Trend



**WEAR**



Area  
**OKLAHOMA**

Machine Id

**6794**

Component

**Diesel Engine**

Fluid

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

## DIAGNOSIS

### ▲ Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

### ▲ Wear

The aluminum level is abnormal. All other 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 acceptable for the time in service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0899580</b>	WC0929928	WC0929924
Sample Date	Client Info		<b>08 Jul 2024</b>	08 Jun 2024	07 May 2024
Machine Age	hrs	Client Info	<b>6006</b>	5918	5832
Oil Age	hrs	Client Info	<b>3869</b>	3781	3695
Oil Changed	Client Info		<b>Not Changed</b>	Not Changd	Not Changed
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>63</b>	69	69
Chromium	ppm	ASTM D5185m >20	<b>2</b>	3	3
Nickel	ppm	ASTM D5185m >4	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m >3	<b>&lt;1</b>	<1	<1
Aluminum	ppm	ASTM D5185m >20	<b>10</b>	9	9
Lead	ppm	ASTM D5185m >40	<b>▲ 41</b>	▲ 40	▲ 40
Copper	ppm	ASTM D5185m >330	<b>60</b>	55	64
Tin	ppm	ASTM D5185m >15	<b>2</b>	2	3
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	<1
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	<1

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>&lt;1</b>	9	1
Barium	ppm	ASTM D5185m	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	<b>25</b>	23	22
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	1	1
Magnesium	ppm	ASTM D5185m	<b>829</b>	841	808
Calcium	ppm	ASTM D5185m	<b>1282</b>	1308	1236
Phosphorus	ppm	ASTM D5185m	<b>1067</b>	1025	997
Zinc	ppm	ASTM D5185m	<b>1286</b>	1286	1272
Sulfur	ppm	ASTM D5185m	<b>2288</b>	2808	2735

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>10</b>	13	13
Sodium	ppm	ASTM D5185m	<b>22</b>	23	23
Potassium	ppm	ASTM D5185m >20	<b>20</b>	18	23

## INFRA-RED

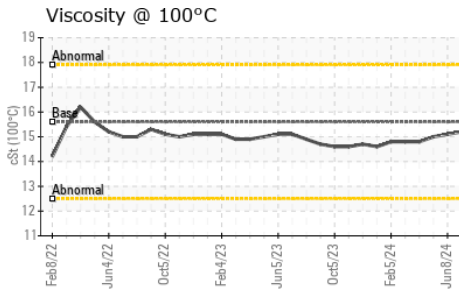
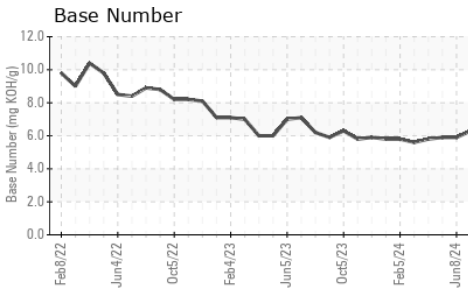
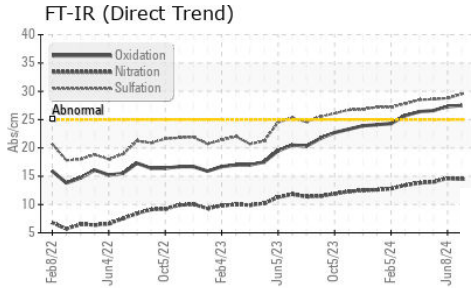
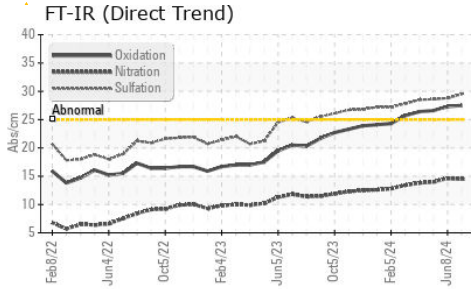
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>1.7</b>	1.7	1.6
Nitration	Abs/cm	*ASTM D7624 >20	<b>14.5</b>	14.6	14.0
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>29.5</b>	28.8	28.6

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>27.5</b>	27.3	26.6
Base Number (BN)	mg KOH/g	ASTM D2896	<b>6.3</b>	5.9	5.9



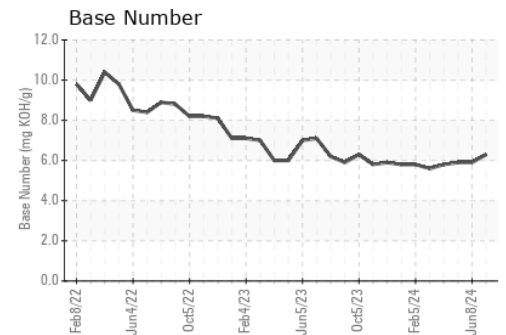
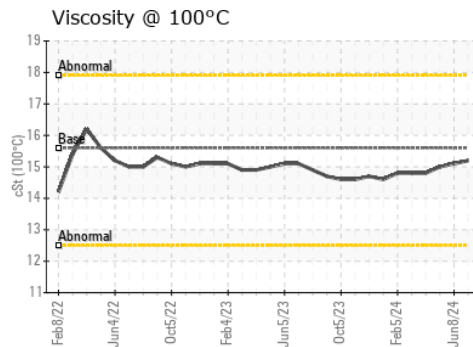
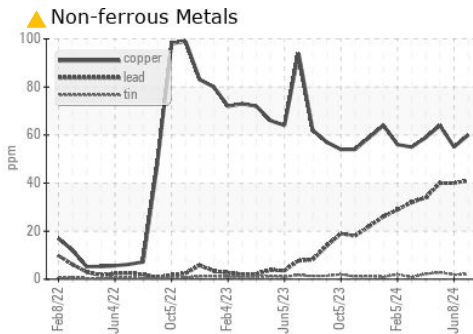
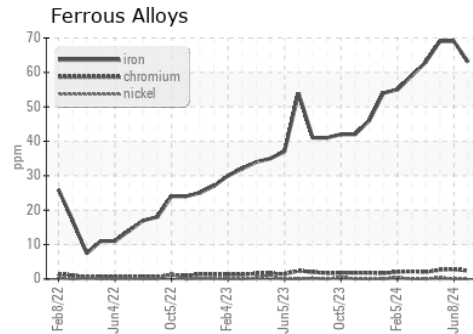
# OIL ANALYSIS REPORT



VISUAL	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.** : WC0899580  
**Lab Number** : 06234714  
**Unique Number** : 11123548  
**Test Package** : FLEET

**Received** : 12 Jul 2024  
**Tested** : 15 Jul 2024  
**Diagnosed** : 15 Jul 2024 - Don Baldrige

**LIBERTY DISPOSAL**  
 6401 S EASTERN AVE  
 OKLAHOMA CITY, OK  
 US 73149  
 Contact: M Rutherford  
 M.Rutherford@ldi89.com

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)