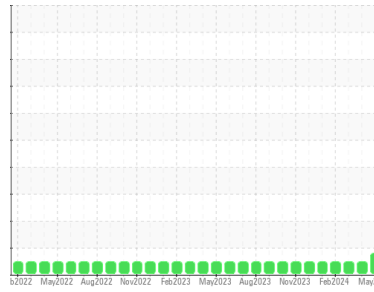




OIL ANALYSIS REPORT

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		WC0929924	WC0899609	WC0899617
Sample Date	Client Info		07 May 2024	09 Apr 2024	06 Mar 2024
Machine Age	hrs	Client Info	5832	5695	5532
Oil Age	hrs	Client Info	3695	3558	3395
Oil Changed	Client Info		Not Changed	Not Changed	Not Changed
Sample Status			ABNORMAL	NORMAL	NORMAL

CONTAMINATION

	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	69	63	59
Chromium	ppm	ASTM D5185m >20	3	2	2
Nickel	ppm	ASTM D5185m >4	<1	0	0
Titanium	ppm	ASTM D5185m	<1	0	0
Silver	ppm	ASTM D5185m >3	<1	0	0
Aluminum	ppm	ASTM D5185m >20	9	8	8
Lead	ppm	ASTM D5185m >40	▲ 40	34	32
Copper	ppm	ASTM D5185m >330	64	59	55
Tin	ppm	ASTM D5185m >15	3	2	<1
Vanadium	ppm	ASTM D5185m	<1	0	0
Cadmium	ppm	ASTM D5185m	<1	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	1	2	2
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	22	20	19
Manganese	ppm	ASTM D5185m	1	1	<1
Magnesium	ppm	ASTM D5185m	808	883	867
Calcium	ppm	ASTM D5185m	1236	1322	1302
Phosphorus	ppm	ASTM D5185m	997	1141	1037
Zinc	ppm	ASTM D5185m	1272	1420	1316
Sulfur	ppm	ASTM D5185m	2735	3009	2917

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	13	12	12
Sodium	ppm	ASTM D5185m	23	22	19
Potassium	ppm	ASTM D5185m >20	23	18	17

INFRA-RED

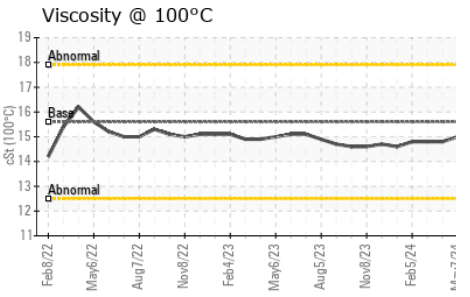
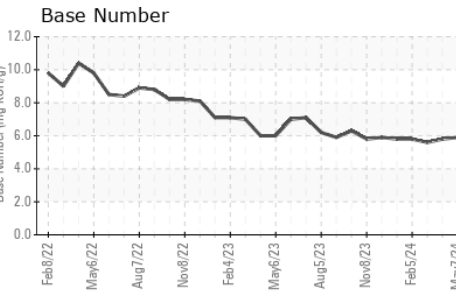
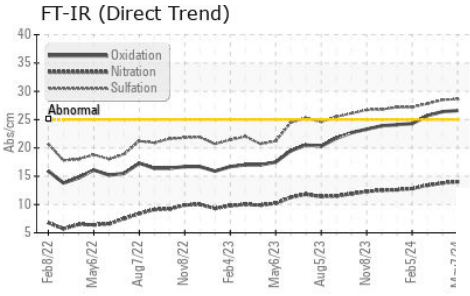
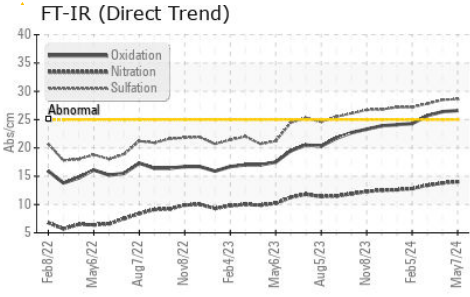
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	1.6	1.6	1.6
Nitration	Abs/cm	*ASTM D7624 >20	14.0	13.8	13.4
Sulfation	Abs/.1mm	*ASTM D7415 >30	28.6	28.5	27.8

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	26.6	26.4	25.7
Base Number (BN)	mg KOH/g	ASTM D2896	5.9	5.8	5.6



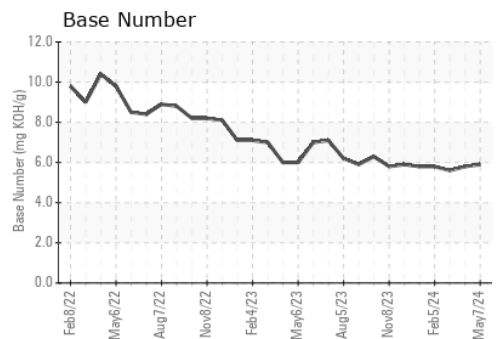
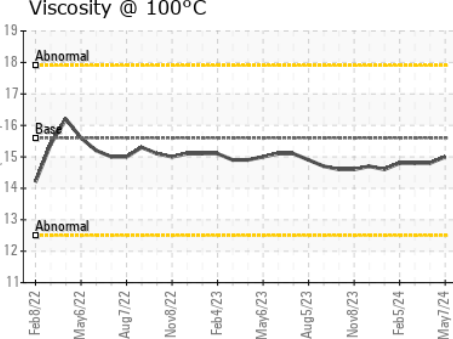
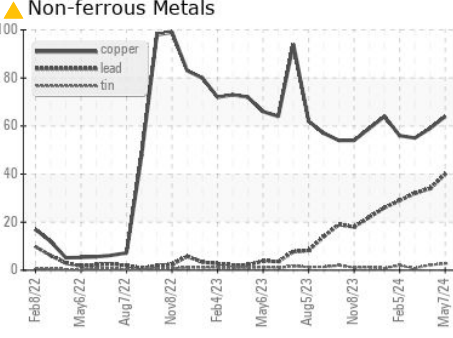
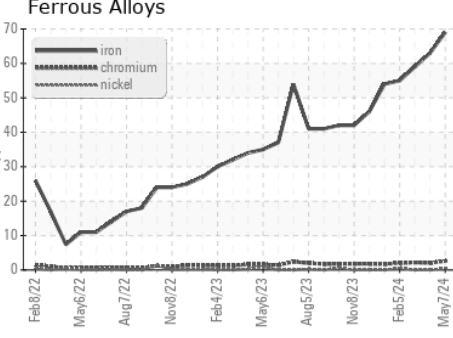
OIL ANALYSIS REPORT



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	15.0	14.8

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0929924 **Received** : 13 May 2024
Lab Number : **06178213** **Tested** : 15 May 2024
Unique Number : 11029539 **Diagnosed** : 15 May 2024 - Sean Felton
Test Package : FLEET

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)