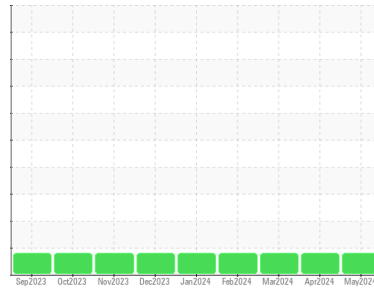




OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Area
OKLAHOMA

Machine Id

7269

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

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		WC0929923	WC0929931	WC0899615
Sample Date	Client Info		06 May 2024	09 Apr 2024	06 Mar 2024
Machine Age	hrs	Client Info	5675	5533	5326
Oil Age	hrs	Client Info	5375	5233	5028
Oil Changed	Client Info		Not Changed	Not Changed	Not Changed
Sample Status			ABNORMAL	ABNORMAL	ABNORMAL

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	78	75	78
Chromium	ppm	ASTM D5185m >20	3	2	2
Nickel	ppm	ASTM D5185m >4	▲ 12	▲ 10	▲ 12
Titanium	ppm	ASTM D5185m	<1	0	0
Silver	ppm	ASTM D5185m >3	<1	<1	0
Aluminum	ppm	ASTM D5185m >20	4	4	3
Lead	ppm	ASTM D5185m >40	1	<1	<1
Copper	ppm	ASTM D5185m >330	12	10	11
Tin	ppm	ASTM D5185m >15	3	3	2
Vanadium	ppm	ASTM D5185m	<1	0	<1
Cadmium	ppm	ASTM D5185m	<1	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<1	3	2
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	48	45	43
Manganese	ppm	ASTM D5185m	2	2	1
Magnesium	ppm	ASTM D5185m	906	1008	962
Calcium	ppm	ASTM D5185m	1310	1418	1448
Phosphorus	ppm	ASTM D5185m	1127	1249	1159
Zinc	ppm	ASTM D5185m	1365	1507	1426
Sulfur	ppm	ASTM D5185m	2897	3128	3049

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	10	9	9
Sodium	ppm	ASTM D5185m	26	25	24
Potassium	ppm	ASTM D5185m >20	10	6	6

INFRA-RED

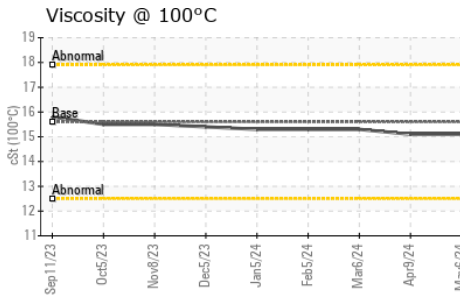
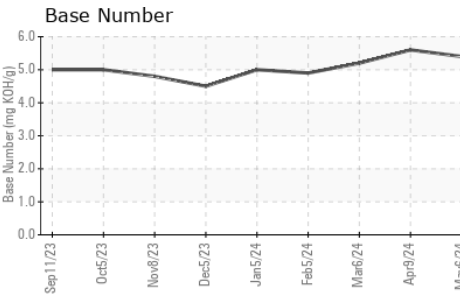
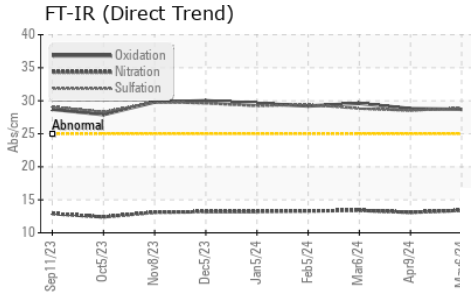
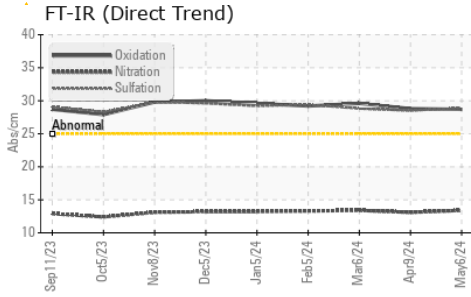
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	1.2	1.2	1.2
Nitration	Abs/cm	*ASTM D7624 >20	13.4	13.1	13.4
Sulfation	Abs/.1mm	*ASTM D7415 >30	28.9	28.5	28.8

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	28.7	28.8	29.6
Base Number (BN)	mg KOH/g	ASTM D2896	5.4	5.6	5.2



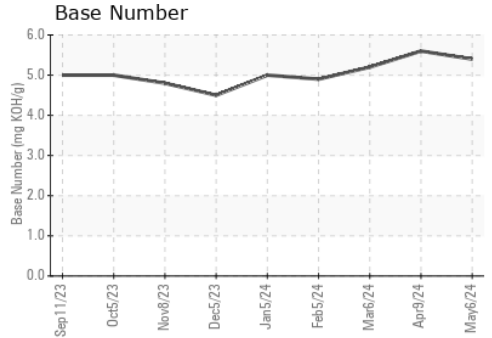
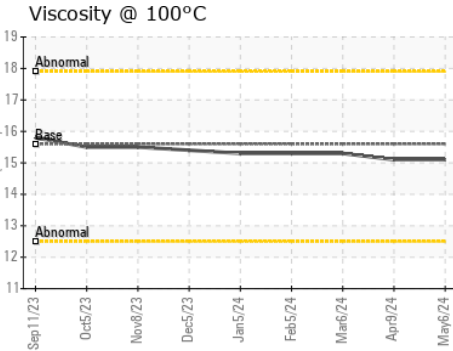
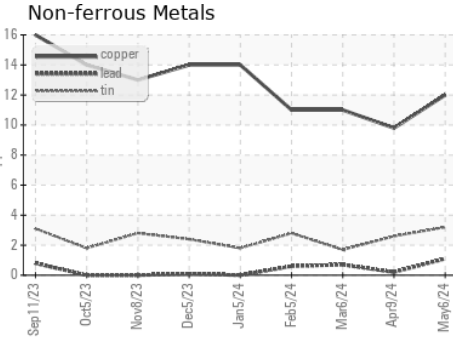
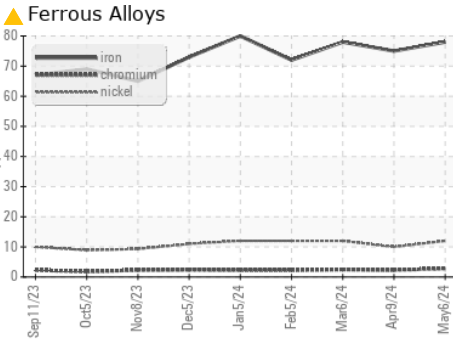
OIL ANALYSIS REPORT



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	15.1	15.3

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0929923
Lab Number : 06178196
Unique Number : 11029522
Test Package : FLEET
Received : 13 May 2024
Tested : 15 May 2024
Diagnosed : 15 May 2024 - Sean Felton

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)