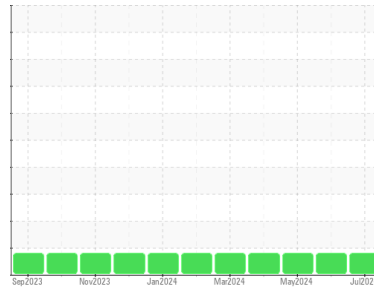




OIL ANALYSIS REPORT

Sample Rating Trend



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		WC0899582	WC0935470	WC0929923
Sample Date	Client Info		08 Jul 2024	08 Jun 2024	06 May 2024
Machine Age	hrs	Client Info	6048	5888	5675
Oil Age	hrs	Client Info	5748	5588	5375
Oil Changed	Client Info		Not Chngd	Not Chngd	Not Chngd
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	65	76	78
Chromium	ppm	ASTM D5185m >20	2	3	3
Nickel	ppm	ASTM D5185m >4	▲ 10	▲ 11	▲ 12
Titanium	ppm	ASTM D5185m	<1	<1	<1
Silver	ppm	ASTM D5185m >3	<1	<1	<1
Aluminum	ppm	ASTM D5185m >20	5	4	4
Lead	ppm	ASTM D5185m >40	<1	<1	1
Copper	ppm	ASTM D5185m >330	10	9	12
Tin	ppm	ASTM D5185m >15	2	2	3
Vanadium	ppm	ASTM D5185m	<1	<1	<1
Cadmium	ppm	ASTM D5185m	0	0	<1

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<1	7	<1
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	51	50	48
Manganese	ppm	ASTM D5185m	<1	2	2
Magnesium	ppm	ASTM D5185m	917	968	906
Calcium	ppm	ASTM D5185m	1332	1385	1310
Phosphorus	ppm	ASTM D5185m	1140	1131	1127
Zinc	ppm	ASTM D5185m	1339	1392	1365
Sulfur	ppm	ASTM D5185m	2309	2911	2897

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	8	9	10
Sodium	ppm	ASTM D5185m	26	26	26
Potassium	ppm	ASTM D5185m >20	8	6	10

INFRA-RED

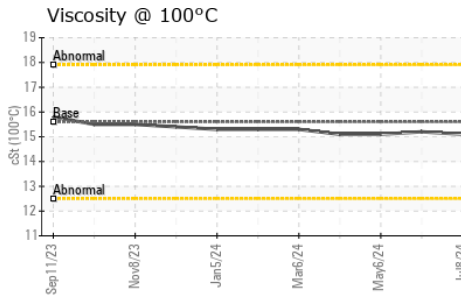
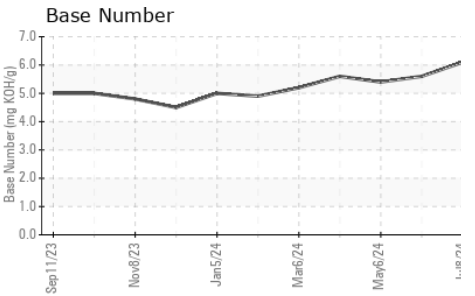
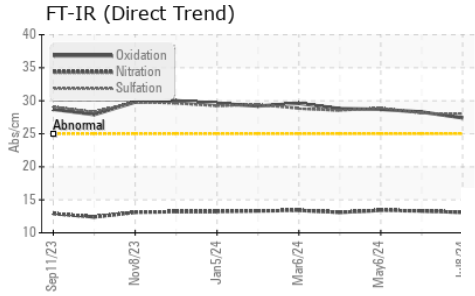
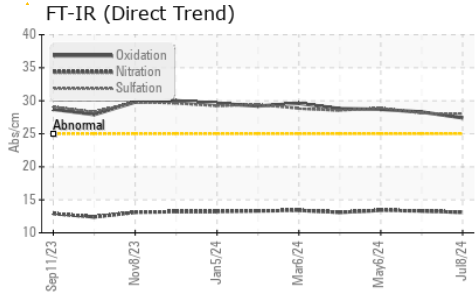
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	1.2	1.2	1.2
Nitration	Abs/cm	*ASTM D7624 >20	13.1	13.3	13.4
Sulfation	Abs/.1mm	*ASTM D7415 >30	28.0	28.1	28.9

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	27.4	28.3	28.7
Base Number (BN)	mg KOH/g	ASTM D2896	6.1	5.6	5.4



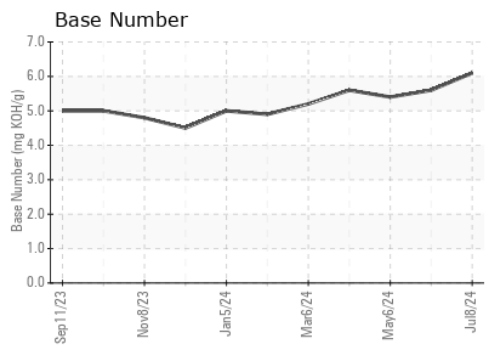
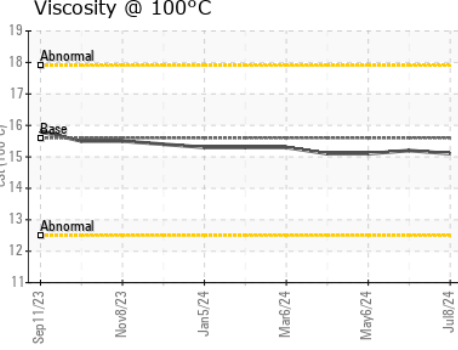
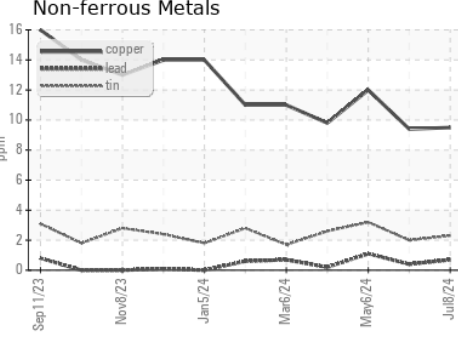
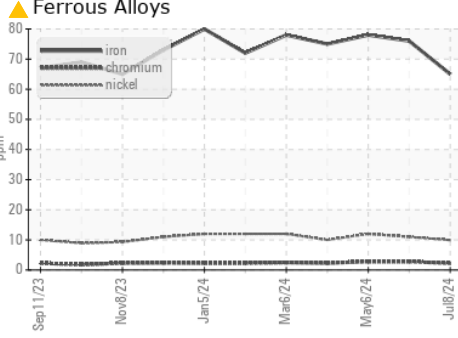
OIL ANALYSIS REPORT



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	15.2

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0899582 **Received** : 12 Jul 2024
Lab Number : 06234717 **Tested** : 15 Jul 2024
Unique Number : 11123551 **Diagnosed** : 15 Jul 2024 - Don Baldridge
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)