



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area **Store 9 - Marietta [150774]**

Machine Id **935200767**

Component **Diesel Engine**

Fluid **DIESEL ENGINE OIL SAE 15W40 (--- GAL)**

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0043194	LEC0034789	LEC0028503
Sample Date		Client Info		15 May 2024	16 Sep 2022	16 Mar 2022
Machine Age	hrs	Client Info		1261	1192	911
Oil Age	hrs	Client Info		350	281	482
Filter Age	hrs	Client Info		350	281	482
Oil Changed		Client Info		Changed	Not Changd	Changed
Filter Changed		Client Info		Changed	Not Changed	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185m	>100	83	34	98
Chromium	ppm	ASTM D5185m	>20	2	2	2
Nickel	ppm	ASTM D5185m	>4	<1	0	<1
Titanium	ppm	ASTM D5185m		<1	1	<1
Silver	ppm	ASTM D5185m	>3	<1	<1	0
Aluminum	ppm	ASTM D5185m	>20	21	14	▲ 37
Lead	ppm	ASTM D5185m	>40	<1	1	<1
Copper	ppm	ASTM D5185m	>330	11	4	8
Tin	ppm	ASTM D5185m	>15	<1	1	<1
Vanadium	ppm	ASTM D5185m		<1	1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

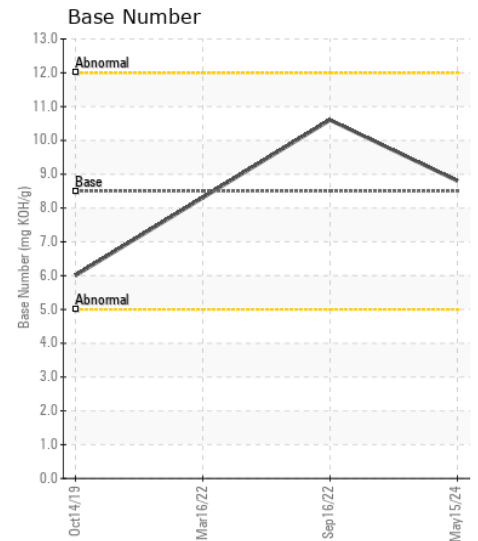
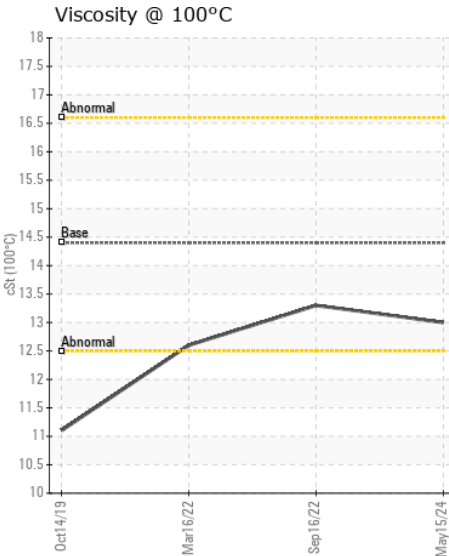
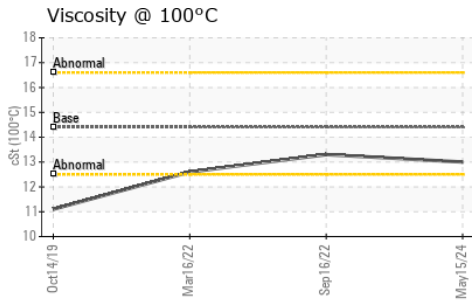
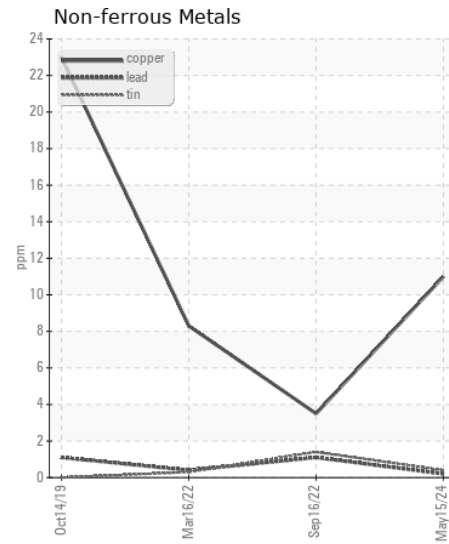
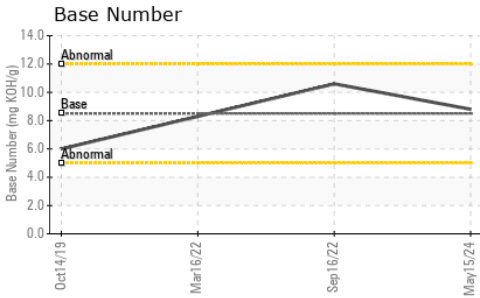
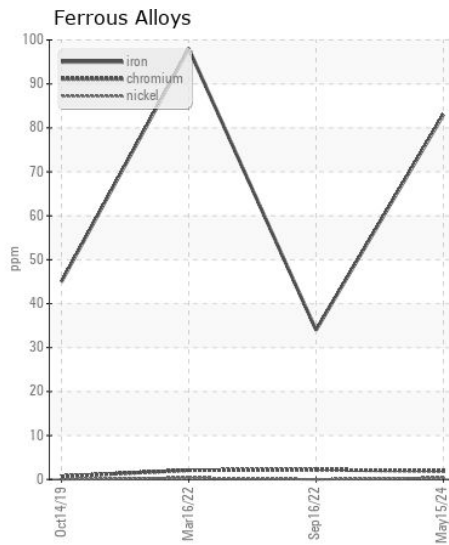
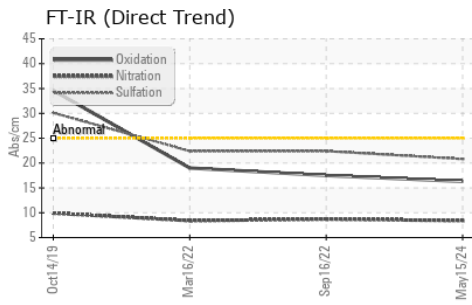
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>120	11	8	9
Potassium	ppm	ASTM D5185m	>20	6	4	6
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	8.4	8.7	8.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.8	22.4	22.4
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG

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.

Sodium	ppm	ASTM D5185m	>158	5	2	2
Boron	ppm	ASTM D5185m	250	249	224	183
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	223	217	166
Manganese	ppm	ASTM D5185m		1	2	1
Magnesium	ppm	ASTM D5185m	450	709	663	598
Calcium	ppm	ASTM D5185m	3000	1392	1403	1936
Phosphorus	ppm	ASTM D5185m	1150	860	846	969
Zinc	ppm	ASTM D5185m	1350	1049	1013	1087
Sulfur	ppm	ASTM D5185m	4250	3215	3376	2912
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.3	17.5	19.0
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.8	10.6	8.3
Visc @ 100°C	cSt	ASTM D445	14.4	13.0	13.3	12.6



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0043194 **Received** : 23 May 2024
Lab Number : 06188979 **Tested** : 24 May 2024
Unique Number : 11045731 **Diagnosed** : 24 May 2024 - Wes Davis
Test Package : CONST (Additional Tests: TBN)

LESLIE EQUIPMENT COMPANY
 105 TENNIS CENTER DR.
 MARIETTA, OH
 US 45750-9765
 Contact: LEANNE KENDALL
 KendalLeanne@lec1.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) F: (740)373-5570