



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
Store 9 - Marietta

Machine Id

534

Component

Diesel Engine

Fluid

LYDEN 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0043980	LEC0028306	LEC0041322
Sample Date		Client Info		10 Jun 2024	09 Jan 2024	14 Aug 2023
Machine Age	hrs	Client Info		4916	4716	4655
Oil Age	hrs	Client Info		261	0	213
Filter Age	hrs	Client Info		261	0	213
Oil Changed		Client Info		Changed	N/A	Changed
Filter Changed		Client Info		Changed	N/A	Changed
Sample Status				NORMAL	NORMAL	ATTENTION

WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
Iron	ppm	ASTM D5185m	>100	24	4	19
Chromium	ppm	ASTM D5185m	>20	<1	0	<1
Nickel	ppm	ASTM D5185m	>4	<1	1	0
Titanium	ppm	ASTM D5185m		44	47	55
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	4	2	5
Lead	ppm	ASTM D5185m	>40	1	<1	0
Copper	ppm	ASTM D5185m	>330	1	0	0
Tin	ppm	ASTM D5185m	>15	0	<1	0
Vanadium	ppm	ASTM D5185m		<1	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

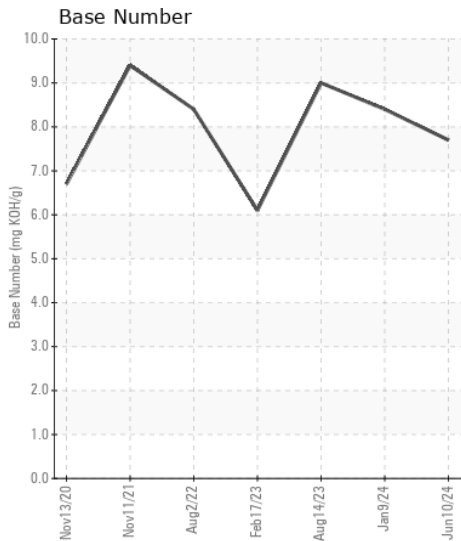
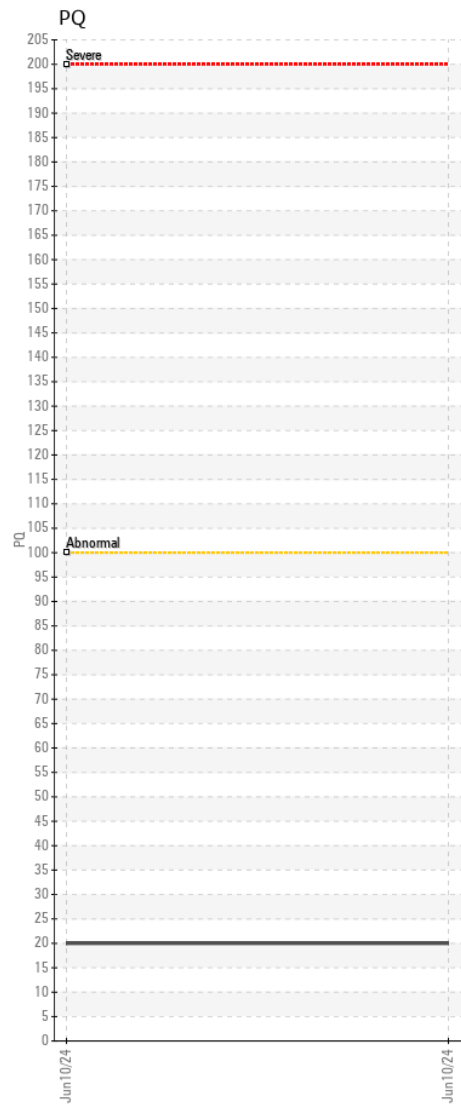
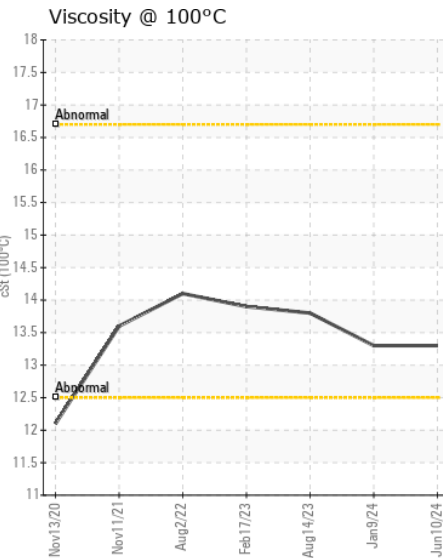
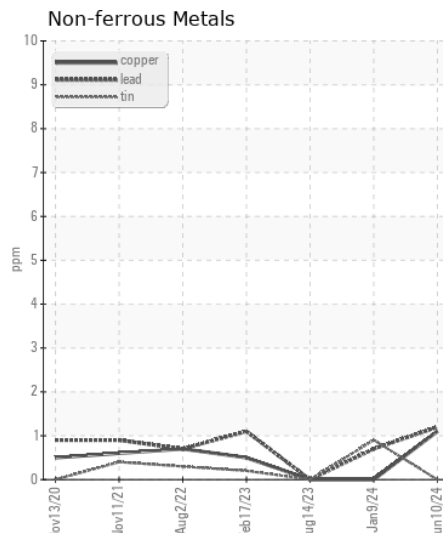
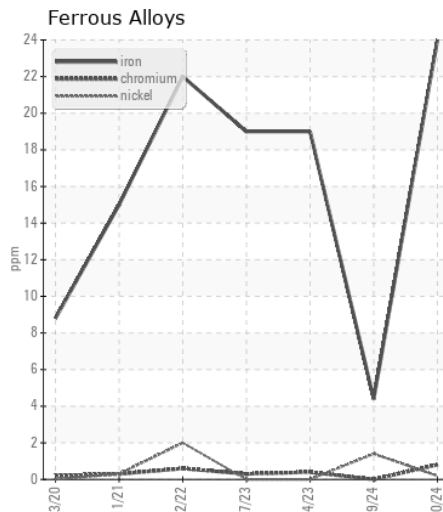
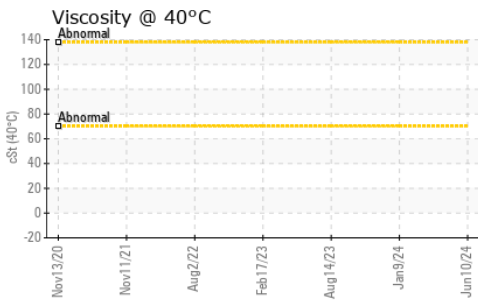
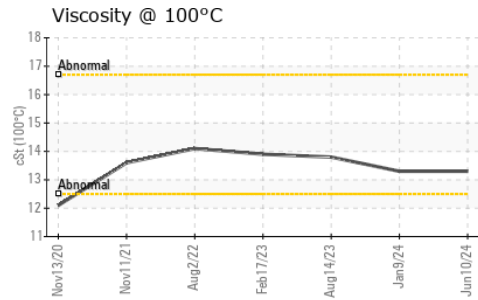
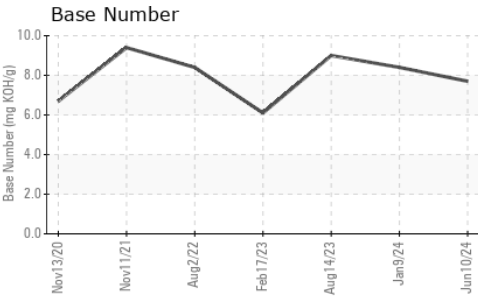
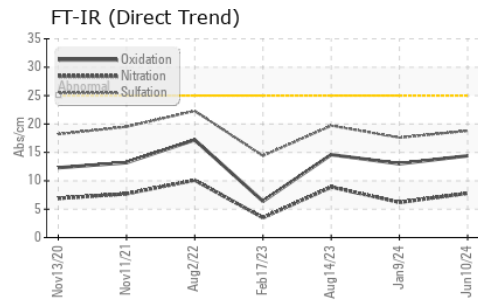
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>120	8	5	6
Potassium	ppm	ASTM D5185m	>20	4	0	7
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	0.0
Soot %	%	*ASTM D7844	>3	0.2	0.1	0.2
Nitration	Abs/cm	*ASTM D7624	>20	7.8	6.2	8.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.8	17.6	19.7
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		18	9	160
Boron	ppm	ASTM D5185m		73	103	106
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		30	17	11
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		500	395	559
Calcium	ppm	ASTM D5185m		1752	1504	1710
Phosphorus	ppm	ASTM D5185m		1084	920	1059
Zinc	ppm	ASTM D5185m		1295	1128	1252
Sulfur	ppm	ASTM D5185m		3782	3557	4627
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.4	13.0	14.6
Base Number (BN)	mg KOH/g	ASTM D2896		7.7	8.4	9.0
Visc @ 100°C	cSt	ASTM D445		13.3	13.3	13.8



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0043980 **Received** : 18 Jun 2024
Lab Number : 06213759 **Tested** : 21 Jun 2024
Unique Number : 11086623 **Diagnosed** : 21 Jun 2024 - Sean Felton
Test Package : CONST (Additional Tests: KV40, PQ, TBN)

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)

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