

## WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

## Store 9 - Marietta

583 Component Diesel Engine

LYDEN 15W40 (--- GAL)

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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		LEC0049505	LEC0043982	LEC0041235
Resample at the next service interval to monitor.	Sample Date		Client Info		14 May 2024	20 Dec 2023	30 Jun 2023
	Machine Age	hrs	Client Info		2674	2491	2271
	Oil Age	hrs	Client Info		183	220	257
	Filter Age	hrs	Client Info		183	220	257
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	15	8	15
	Chromium	ppm	ASTM D5185m	>20	1	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1	0	<1
	Titanium	ppm	ASTM D5185m		102	69	64
	Silver	ppm	ASTM D5185m	>3	1	<1	0
	Aluminum	ppm	ASTM D5185m	>20	3	2	2
	Lead	ppm	ASTM D5185m	>40	1	<1	<1
	Copper	ppm	ASTM D5185m	>330	2	1	2
	Tin	ppm	ASTM D5185m	>15	<1	<1	<1
	Vanadium	ppm	ASTM D5185m		2	<1	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon		ASTM D5185m	. 120	10	0	0
CONTAMINATION	Potassium	ppm	ASTM D5185m		12 4	8	9
There is no indication of any contamination in the oil.	Fuel	ppm		>20	4 <1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	20.2	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.3	0.3	0.3
	Nitration	Abs/cm		>20	9.3	9.9	10.6
	Sulfation	Abs/.1mm	*ASTM D7415		20.2	21.6	21.6
	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
					•	4	0
FLUID CONDITION	Sodium Boron	ppm	ASTM D5185m ASTM D5185m		3	1 75	0 69
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron Barium	ppm	ASTM D5185m ASTM D5185m		179 0	0	0
	Molybdenum	ppm ppm	ASTM D5185m		25	14	20
	Manganese	ppm	ASTM D5185m		25 1	<1	<1
	Magnesium	ppm	ASTM D5185m		665	422	501
	Calcium	ppm	ASTM D5185m		2604	1809	1641
	Phosphorus	ppm	ASTM D5185m		1495	1046	1029
	Zinc	ppm	ASTM D5185m		1742	1246	1208
	Sulfur	ppm	ASTM D5185m		6255	3893	3685
	Oxidation	Abs/.1mm	*ASTM D7414	>25	15.6	18.1	18.4
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Base Number (BN) mg KOH/g ASTM D2896

Visc @ 100°C cSt

ASTM D445

6.8

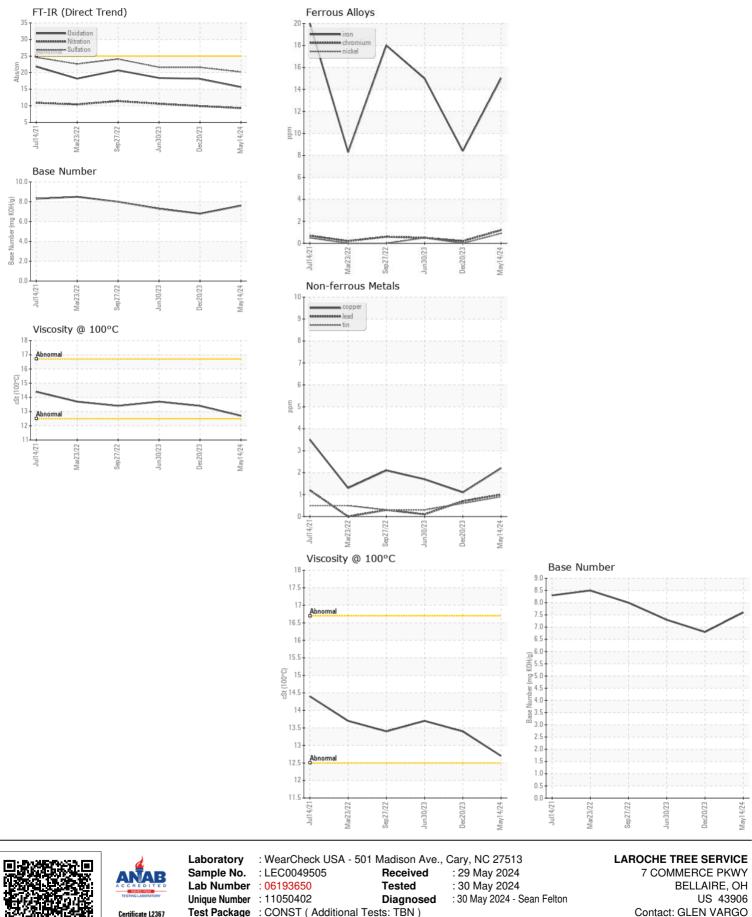
13.4

7.3

13.7

7.6

12.7



- 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)

Contact/Location: GLEN VARGO - LARBELOH Page 2 of 2

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