

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

Store 9 - Marietta

516 Component Diesel Engine

LYDEN 15W40 (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Descurre la set des mais sistement de manifest	Sample Number		Client Info		LEC0034731	LEC0028920	LEC0024477
Resample at the next service interval to monitor.	Sample Date		Client Info		27 Apr 2023	24 May 2022	01 Oct 2021
	Machine Age	hrs	Client Info		2463	2188	1922
	Oil Age	hrs	Client Info		275	266	201
	Filter Age	hrs	Client Info		275	266	201
	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	20	16	14
	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		49	79	77
	Silver	ppm	ASTM D5185m	>3	<1	1	<1
	Aluminum	ppm	ASTM D5185m	>20	1	2	6
	Lead	ppm		>40	2	<1	<1
	Copper	ppm	ASTM D5185m	>330	<1	<1	1
	Tin	ppm	ASTM D5185m	>15	<1	0	<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	Silicon	ppm	ASTM D5185m	>!20	4	3	2
	Potassium	ppm	ASTM D5185m		3	3	6
There is no indication of any contamination in the oil.	Fuel	pp		>5	<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	, 0.1	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.5	0.4	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	8.2	7.7	7.6
	Sulfation	Abs/.1mm	*ASTM D7415		19.6	19.0	18.9
	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	Sodium	ppm	ASTM D5185m		2	2	3
	Boron	ppm	ASTM D5185m		67	135	130
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		29	6	12
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		634	414	405
	Calcium	ppm	ASTM D5185m		1522	1734	1661
	Phosphorus	ppm	ASTM D5185m		1060	979	978
	Zinc	ppm	ASTM D5185m		1282	1153	1088
	Sulfur	ppm	ASTM D5185m		4518	3816	3246
	Oxidation		*ASTM D7414	>25	14.6	13.8	13.9
				-			

Base Number (BN) mg KOH/g ASTM D2896

Visc @ 100°C cSt

ASTM D445

8.1

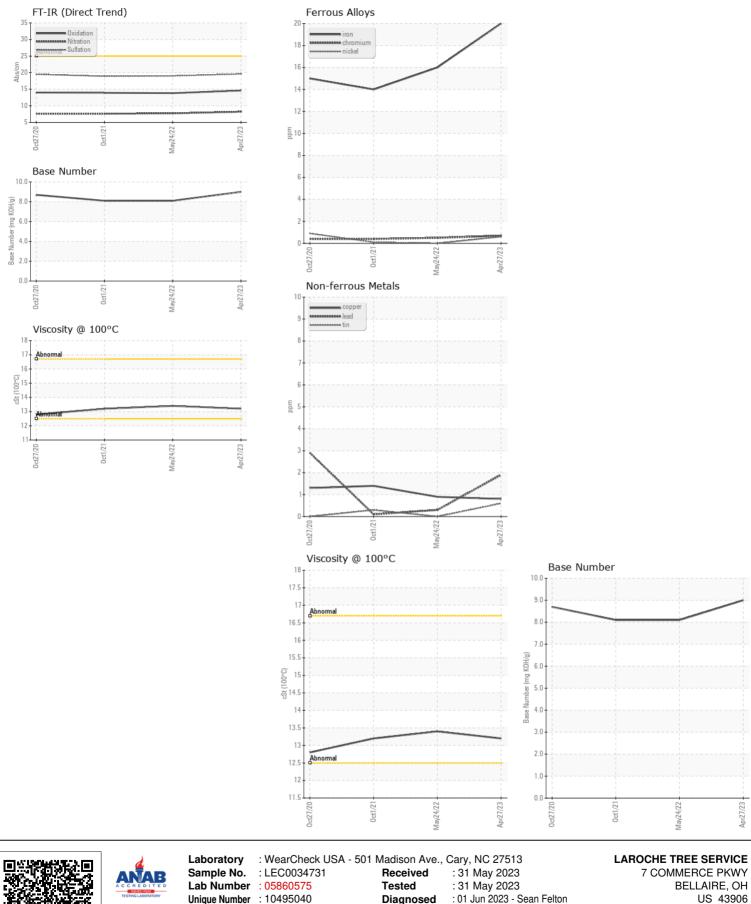
13.4

8.1

13.2

9.0

13.2



Unique Number : 10495040 Diagnosed : 01 Jun 2023 - Sean Felton Test Package : CONST (Additional Tests: TBN) Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. glen.vargo@larochetree.com * - 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

Contact: GLEN VARGO

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