

WEAR CONTAMINATION **FLUID CONDITION**

NORMAL ABNORMAL NORMAL

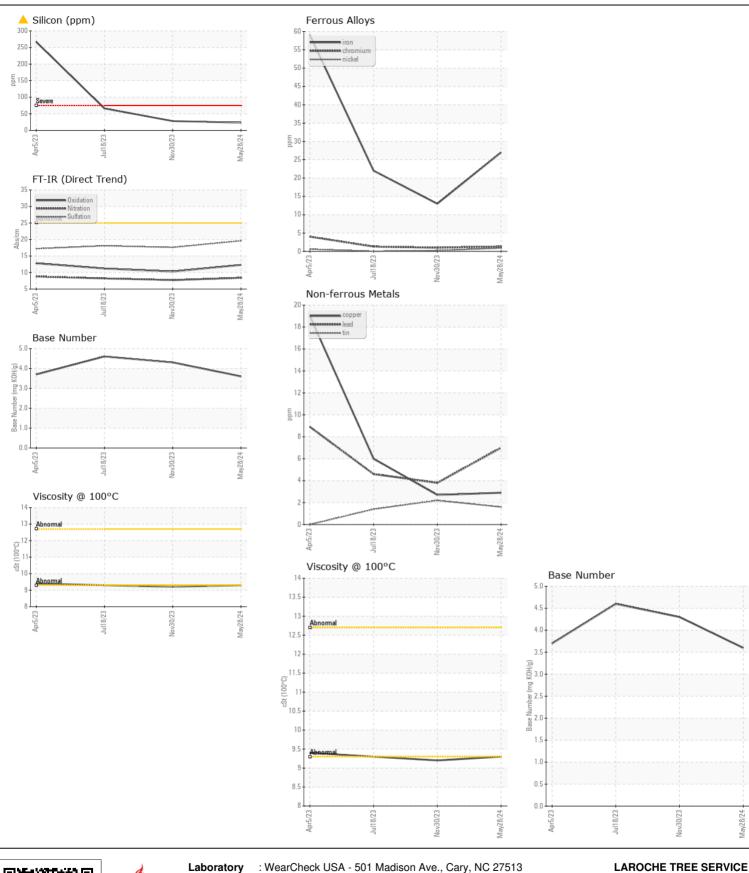
Store 9 - Marietta

BANDIT 5068

Component

Gasoline Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		LEC0049531		,
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Date		Client Info		28 May 2024	30 Nov 2023	18 Jul 2023
	Machine Age	hrs	Client Info		638	435	324
	Oil Age	hrs	Client Info		203	111	134
	Filter Age	hrs	Client Info		203	111	134
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ABNORMAL	ABNORMAL	ABNORMA
VEAD	lua-a		ACTM DE10E	150	07	40	00
WEAR	Iron	ppm	ASTM D5185m		27	13	22
All component wear rates are normal.	Chromium Nickel	ppm	ASTM D5185m		1 .1	1	0
	Titanium	ppm	ASTM D5185m ASTM D5185m	>5	<1	<1 1	<1
	Silver	ppm	ASTM D5185m	. 0	<1	0	0
	Aluminum	ppm	ASTM D5185m		<1 7	11	11
	Lead	ppm	ASTM D5185m		7	4	5
	Copper	ppm	ASTM D5185m		3	3	6
	Tin	ppm	ASTM D5185m		2	2	1
	Vanadium	ppm	ASTM D5185m	>10	<1	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m		2 3	<u> </u>	<u>^</u> 66
Elemental level of silicon (Si) above normal indicating ingress of seal material.	Potassium	ppm	ASTM D5185m		2	1	0
	Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol	21	WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	00	0	0.1	0
	Nitration Sulfation	Abs/cm	*ASTM D7624	>20	8.4	7.7	8.2 18.1
	Silt	Abs/.1mm scalar	*ASTM D7415 *Visual	NONE	19.6 NONE	17.6 NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water		*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>400	3	3	6
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185m		60	88	92
	Barium	ppm	ASTM D5185m		<1	0	<1
	Molybdenum	ppm	ASTM D5185m		82	72	93
	Manganese	ppm	ASTM D5185m		1	<1	2
	Magnesium	ppm	ASTM D5185m		488	481	526
		ppm	ASTM D5185m		969	877	996
	Calcium				E70	609	620
	Phosphorus	ppm	ASTM D5185m		576		
	Phosphorus Zinc	ppm	ASTM D5185m		696	686	710
	Phosphorus Zinc Sulfur	ppm	ASTM D5185m ASTM D5185m	25	696 2497	686 2439	710 2700
	Phosphorus Zinc	ppm ppm Abs/.1mm	ASTM D5185m ASTM D5185m *ASTM D7414	>25	696	686	710







Certificate L2367

Laboratory Sample No.

: LEC0049531 Lab Number : 06213103 Unique Number: 11085967 Test Package : CONST (Additional Tests: TBN)

Received **Tested**

: 18 Jun 2024 Diagnosed

: 19 Jun 2024

: 20 Jun 2024 - Don Baldridge

Contact: GLEN VARGO glen.vargo@larochetree.com T:

7 COMMERCE PKWY

BELLAIRE, OH

US 43906

F:

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)