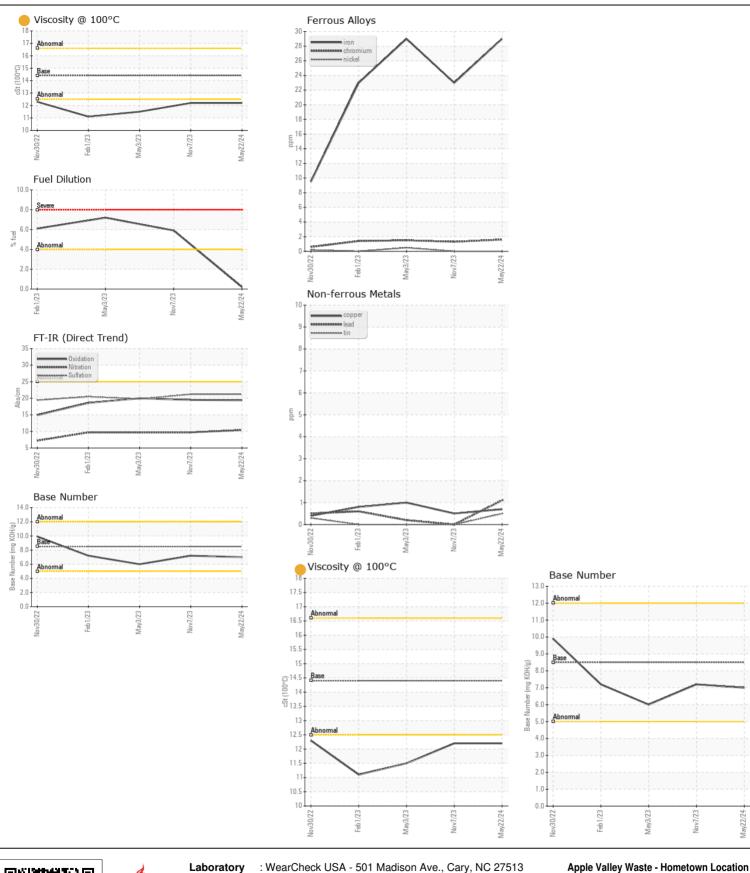
WEAR CONTAMINATION **FLUID CONDITION**

NORMAL **NORMAL ATTENTION**

Machine Id

1013 Component Gasoline Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		WC0858198	WC0858166	WC076002
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Date		Client Info		22 May 2024	07 Nov 2023	03 May 202
	Machine Age	mls	Client Info		3010	2549	38226
	Oil Age	mls	Client Info		520	520	520
	Filter Age	mls	Client Info		520	520	520
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ATTENTION	ABNORMAL	ABNORMA
WEAR	Iron	nnm	ASTM D5185m	>150	29	23	29
WLAN	Chromium	ppm	ASTM D5185m		29	1	2
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	0	<1
	Titanium	ppm	ASTM D5185m	/5	<1	0	0
	Silver	ppm	ASTM D5185m	>2	<1	<1	0
	Aluminum	ppm	ASTM D5185m		2	3	<1
	Lead	ppm	ASTM D5185m		1	0	<1
	Copper	ppm	ASTM D5185m		<1	<1	1
	Tin	ppm	ASTM D5185m		<1	0	0
	Vanadium	ppm	ASTM D5185m		<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTANUNATION	0.11.		AOTA DE LOS				
CONTAMINATION	Silicon	ppm	ASTM D5185m		5	5	5
Fuel content negligible. There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		1	0	A 7.0
	Fuel	%	ASTM D3524		0.2	▲ 5.9	▲ 7.2
	Water		WC Method WC Method	>0.2	NEG NEG	NEG NEG	NEG NEG
	Glycol Soot %	%	*ASTM D7844		0.4	0.4	0.5
	Nitration	Abs/cm	*ASTM D7624	>20	10.4	9.7	9.7
	Sulfation	Abs/.1mm	*ASTM D7024		21.2	21.2	19.8
	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	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
THE CONDITION	O "		AOTA DE LOS	450			
FLUID CONDITION	Sodium	ppm	ASTM D5185m		3	3	<1
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	Boron	ppm	ASTM D5185m		5	4	4
	Barium	ppm	ASTM D5185m		0	0	0
	Mongonoso	ppm	ASTM D5185m	100	60	56	63
	Manganese	ppm	ASTM D5185m ASTM D5185m	150	<1 071	<1	<1
	Magnesium Calcium	ppm	ASTM D5185m	3000	871 1116	881 971	817 1068
	Phosphorus	ppm	ASTM D5185m		1018	920	953
	Zinc	ppm	ASTM D5185m		1136	1163	1155
	Sulfur	ppm	ASTM D5185m		3316	2783	2893
	Oxidation	Abs/.1mm	*ASTM D3163111		19.4	19.5	20.0
	Base Number (BN)		ASTM D2896		7.0	7.2	6.0
	במסט וזמוווטטו (בוע)	my norry	. 10 1111 02000	0.0	7.0	/	0.0







Certificate L2367

Laboratory Sample No.

Lab Number : 06194865

: WC0858198

Unique Number: 11056988

Received : 29 May 2024 **Tested** : 03 Jun 2024

Diagnosed : 03 Jun 2024 - Jonathan Hester Test Package : CONST (Additional Tests: PercentFuel, TBN)

155 Airport Road Selinsgrove, PA US 17870

Contact: Service Manager

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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