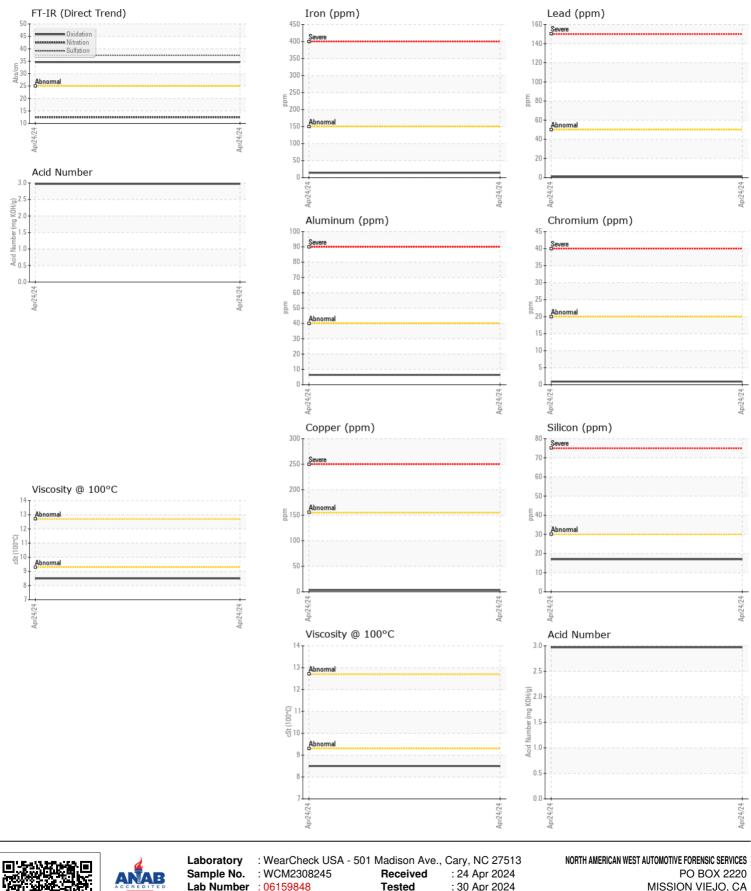


## Machine Id **KIA 27298-010**

Gasoline Engine

{not provided} (--- GAL)

{not provided} ( GAL)					.,		
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		WCM2308245		
No corrective action is recommended at this time.	Sample Date		Client Info		24 Apr 2024		
	Machine Age	mls	Client Info		0		
	Oil Age	mls	Client Info		0		
	Filter Age	mls	Client Info		0		
	Oil Changed		Client Info		N/A		
	Filter Changed		Client Info		N/A		
	Sample Status				NORMAL		
WEAR	Iron	ppm	ASTM D5185m		14		
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	<1		
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>5	2		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m	>2	1		
	Aluminum	ppm	ASTM D5185m		6		
	Lead	ppm	ASTM D5185m	>50	1		
	Copper	ppm	ASTM D5185m	>155	3		
	Tin	ppm	ASTM D5185m	>10	1		
	Vanadium	ppm	ASTM D5185m		<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m		17		
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	5		
	Fuel	%	ASTM D3524		<1.0		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844		0.1		
	Nitration	Abs/cm	*ASTM D7624	>20	12.4		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	37.4		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.2	NEG		
	0			400	•		
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>400	3		
The AN level is acceptable for this fluid.	Boron	ppm	ASTM D5185m		49		
	Barium	ppm	ASTM D5185m		2		
	Molybdenum	ppm	ASTM D5185m		342		
	Manganese	ppm	ASTM D5185m		2		
	Magnesium	ppm	ASTM D5185m		96		
	Calcium	ppm	ASTM D5185m		1612		
	Phosphorus	ppm	ASTM D5185m		679		
	Zinc	ppm	ASTM D5185m		837		
	Sulfur	ppm	ASTM D5185m	0.5	2466		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	34.6		
	Acid Number (AN)				2.97		
	Visc @ 100°C	cSt	ASTM D445		8.5		



Lab Number : 06159848 : 30 Apr 2024 MISSION VIEJO, CA Tested : 30 Apr 2024 - Jonathan Hester US 92690 Unique Number : 10995271 Diagnosed Test Package : MOB 2 (Additional Tests: FuelDilution, PercentFuel) Contact: CHAD TREDWAY Certificate L2367 chad.nawest@gmail.com;northamericanwest@gmail.com 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. T: (888)491-1080 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (949)271-2360

Contact/Location: CHAD TREDWAY - NORLAD Page 2 of 2