WEAR CONTAMINATION **FLUID CONDITION**

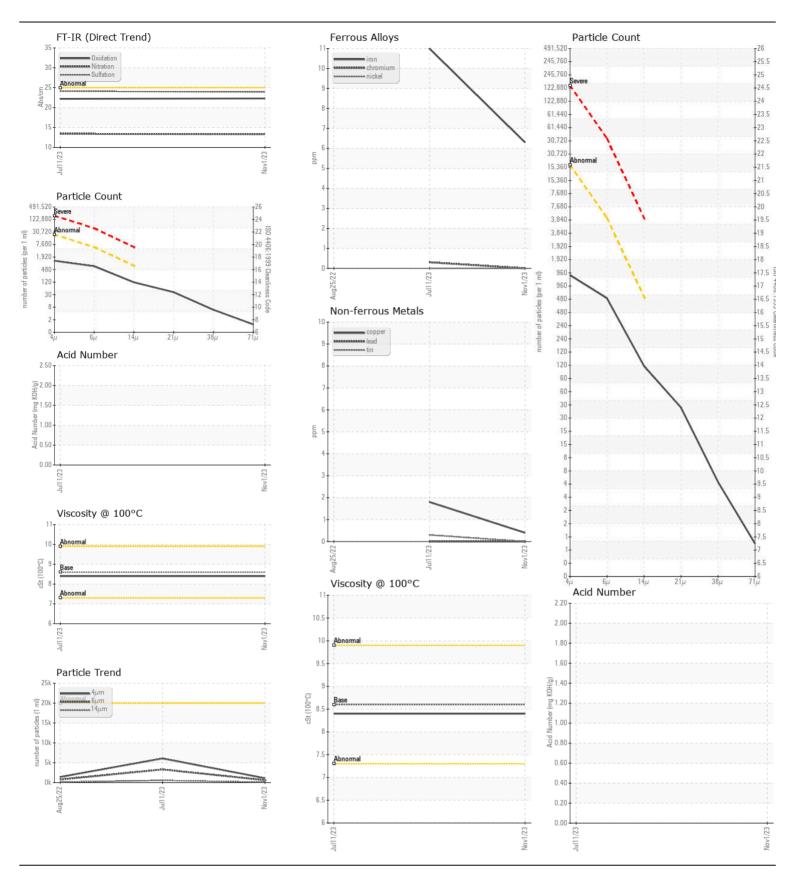
NORMAL NORMAL NORMAL

Machine Id

NISSAN ROGUE

Gasoline Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		WC0806717	WC0806716	WC069851
Resample at the next service interval to monitor.	Sample Date		Client Info		01 Nov 2023	11 Jul 2023	25 Aug 2022
	Machine Age	mls	Client Info		152018	7100	120657
	Oil Age	mls	Client Info		0	0	6000
	Filter Age	mls	Client Info		0	0	0
	Oil Changed		Client Info		N/A	Changed	N/A
	Filter Changed		Client Info		N/A		N/A
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>150	6	11	
	Chromium	ppm	ASTM D5185m		0	<1	
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	0	
	Titanium	ppm	ASTM D5185m		0	0	
	Silver	ppm	ASTM D5185m	>2	0	0	
	Aluminum	ppm	ASTM D5185m	>40	4	5	
	Lead	ppm	ASTM D5185m	>50	0	0	
	Copper	ppm	ASTM D5185m		<1	2	
	Tin	ppm	ASTM D5185m	>10	0	<1	
	Vanadium	ppm	ASTM D5185m		0	<1	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Ciliaaa		ACTM DE10E	00	04	0.4	
	Silicon	ppm	ASTM D5185m		21	24	
The system cleanliness is acceptable for your target ISO 4406	Potassium	ppm	ASTM D5185m		9	3	1.0
cleanliness code. The system and fluid cleanliness is acceptable.	Fuel Water		WC Method	>4.0	<1.0	<1.0 NEG	<1.0 NEG
	Glycol		WC Method	>0.2	NEG NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0.1	0.1	INEG
	Nitration	Abs/cm	*ASTM D7644	- 20	13.3	13.4	
	Sulfation	Abs/.1mm	*ASTM D7024		23.9	24.1	
	Particles >4µm	AUG/. 1111111	ASTM D7647		1122	6081	1429
	Particles >6µm		ASTM D7647		611	3313	778
	Particles >14µm		ASTM D7647		104	564	132
	Particles >21µm		ASTM D7647		35	190	45
	Particles >38µm		ASTM D7647		5	29	7
	Particles >71µm		ASTM D7647		1	3	1
	Oil Cleanliness		ISO 4406 (c)		17/16/14	20/19/16	18/17/1
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
TI LUD CONDITION	0 "		AOTA DELOS	400			
FLUID CONDITION	Sodium	ppm	ASTM D5185m		3	<1	
The AN level is acceptable for this fluid. The condition of the oil is	Boron	ppm	ASTM D5185m		34	35	
suitable for further service.	Barium	ppm	ASTM D5185m		03	0	
	Molybdenum Manganese	ppm	ASTM D5185m ASTM D5185m		93 <1	98 <1	
	Magnesium	ppm	ASTM D5185m		686	740	
	Calcium	ppm	ASTM D5185m		703	740	
	Phosphorus	ppm	ASTM D5185m		653	713	
	Zinc	ppm	ASTM D5185m	525	853	883	
	Sulfur	ppm	ASTM D5185m		2147	2644	
	Oxidation	Abs/.1mm	*ASTM D7414		22.3	22.2	
	Acid Number (AN)		ASTM D8045		2.11		





Certificate L2367

Lab Number

Laboratory Sample No.

: WC0806717 : 06000006

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

Tested Unique Number: 10728366 Diagnosed Test Package : MOB 2 (Additional Tests: PrtCount)

Received : 06 Nov 2023 : 08 Nov 2023

: 08 Nov 2023 - Wes Davis

BEKAERT 1395 S MARIETTA PKWY, BLDG 700 SUITE 708 MARIETTA, GA

US 30067 Contact: JEFF MOTHERSBAUGH jmothersbaugh@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. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

T: (803)220-6839 F: (770)423-9181