

# **OIL ANALYSIS REPORT**

#### Sample Rating Trend



# **DEGRADATION**



# NISSAN NISSAN TITAN

Component

**Front Gasoline Engine** 

SHELL (7 QTS)

## DIAGNOSIS

#### Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

## Contamination

There is a high amount of particulates present in the oil. There is no indication of any contamination in the oil.

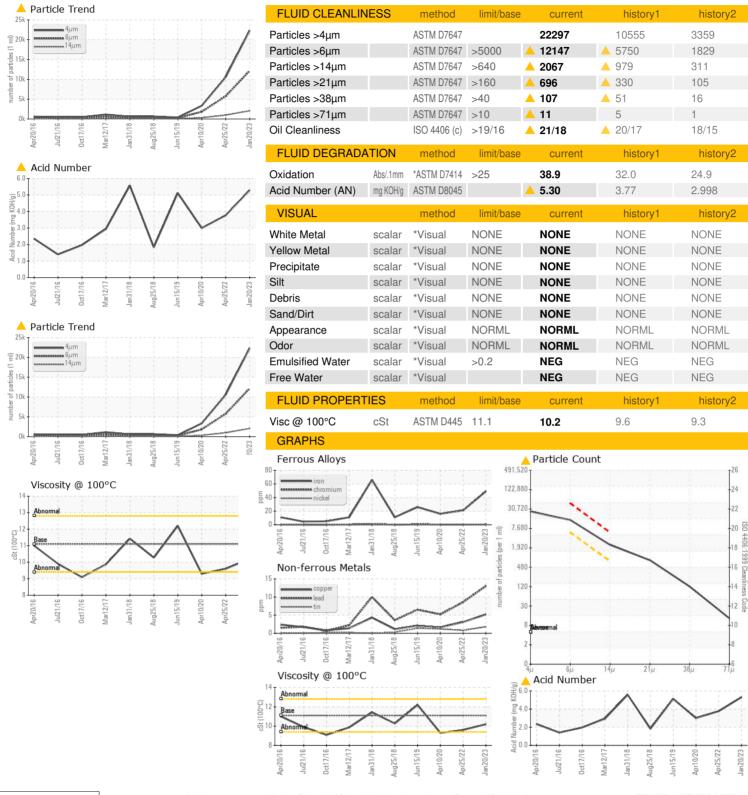
### Fluid Condition

The AN level is at the top-end of the recommended limit. The condition of the oil is acceptable for the time in service.

Аргіго Б. Julir 16 Octiv 16 Marir 17 Janii 18 Aug 2018 Junii 19 Aprir 20 Aprir 202 Janii 202 Аргіго						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KLM2338196	KL0006449	KLM2334896
Sample Date		Client Info		20 Jan 2023	25 Apr 2022	10 Apr 2020
Machine Age	mls	Client Info		143694	133205	109620
Oil Age	mls	Client Info		28640	34461	10876
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				ABNORMAL	ATTENTION	NORMAL
CONTAMINATIO	V	method	limit/base	current	history1	history2
Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>150	49	21	16
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	<1	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m	>40	7	4	4
Lead	ppm	ASTM D5185m	>50	13	9	5
Copper	ppm	ASTM D5185m	>155	5	3	2
Tin	ppm	ASTM D5185m	>10	2	<1	1
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		<1 0	<1	<1
Cadmium	ppm	ASTM D5185m		U	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		13	19	18
Barium	ppm	ASTM D5185m		0	0	<1
Molybdenum	ppm	ASTM D5185m		81	86	103
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		390	467	410
Calcium	ppm	ASTM D5185m		1261	1114	1416
Phosphorus	ppm	ASTM D5185m		590	628	604
Zinc Sulfur	ppm	ASTM D5185m ASTM D5185m		646 3018	651 2729	688 2677
	ppm		lineit/lenene			
CONTAMINANTS		method	limit/base		history1	history2
Silicon	ppm	ASTM D5185m	>30	27	14	13 7
Sodium Potassium	ppm	ASTM D5185m		22 4	11	<1
	ppm	ASTM D5185m	>20			
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	22	0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624		19.0	16.4	14
Sulfation	Abs/.1mm	*ASTM D7415	>30	46.2	39.9	31.3



## OIL ANALYSIS REPORT







Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** 

: KLM2338196

: 05766684 : 10336292

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 13 Feb 2023 Received Diagnosed : 15 Feb 2023 Diagnostician : Don Baldridge

Test Package : MOB 2 ( Additional Tests: PrtCount ) 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) TRIAD LUBRICATION

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