



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION

Machine Id
NISSAN NISSAN TITAN
Component
Gasoline Engine
Fluid
ALPHA 5W30 (--- QTS)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

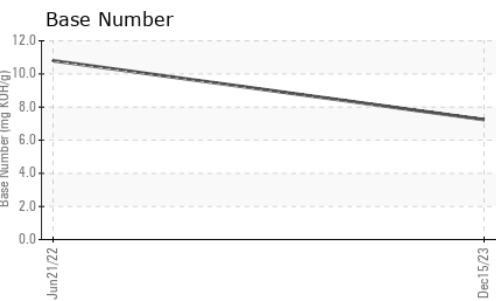
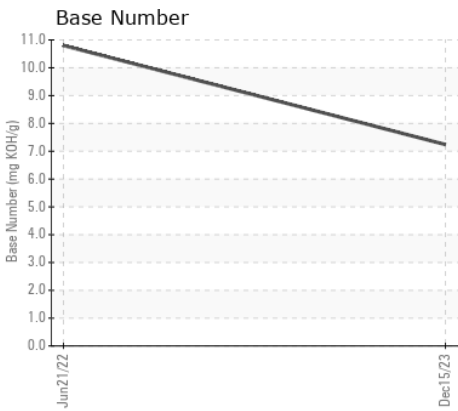
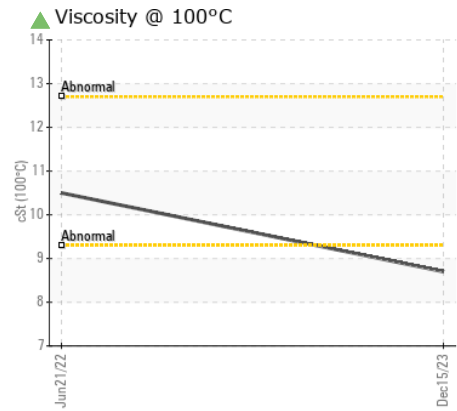
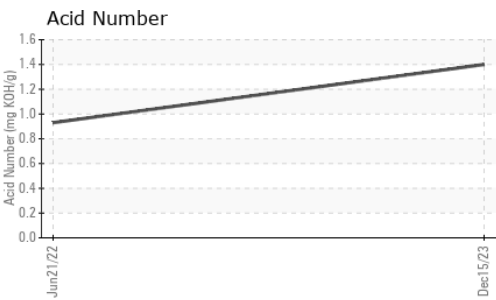
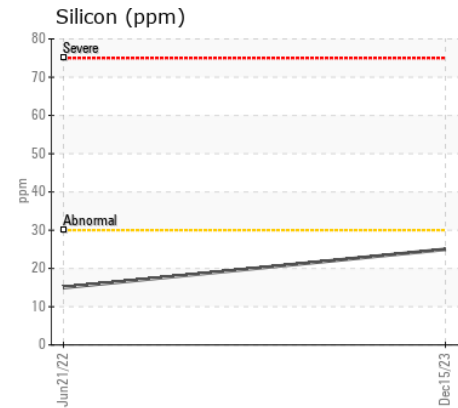
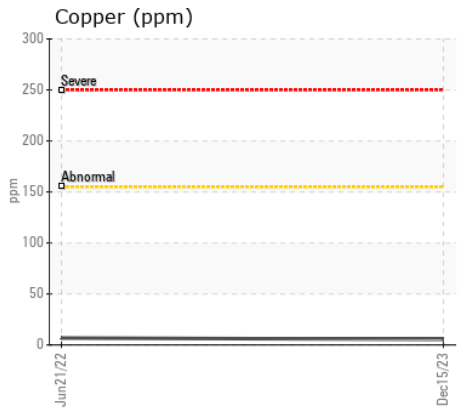
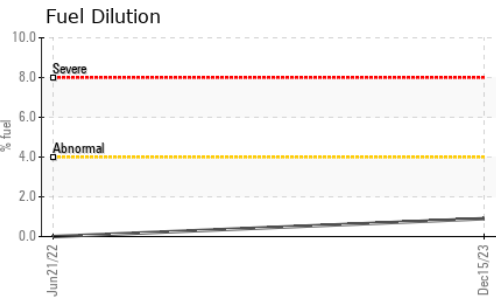
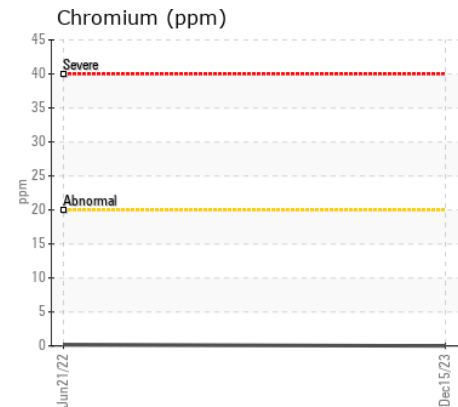
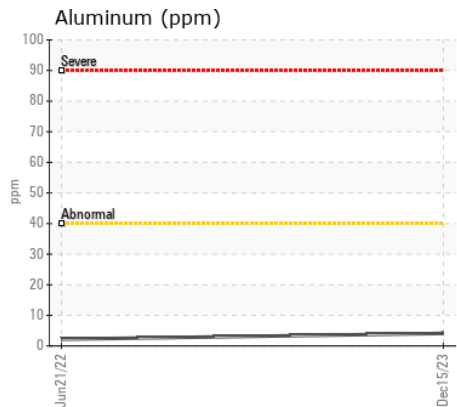
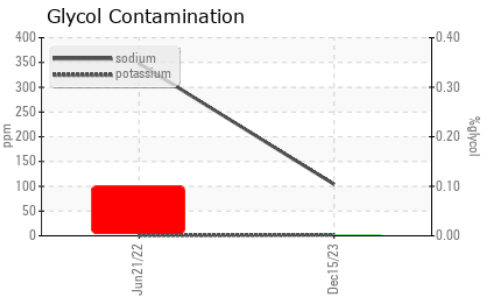
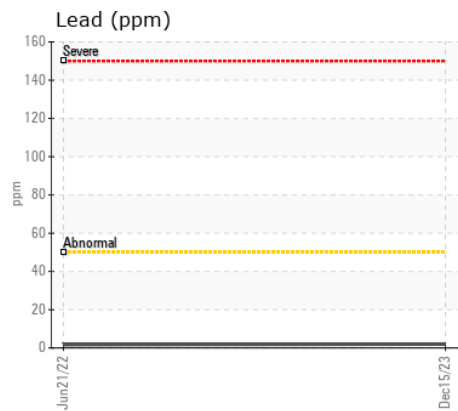
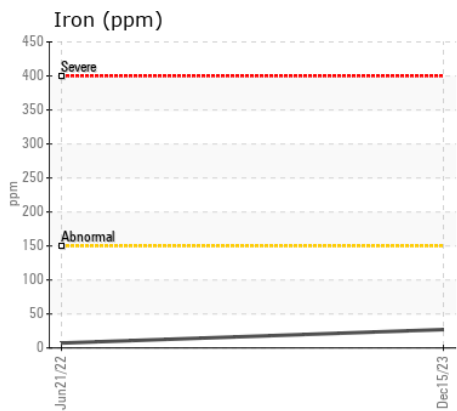
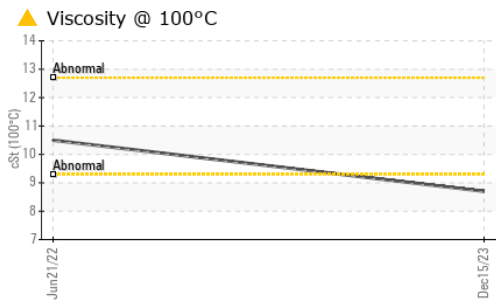
CONTAMINATION

Sodium and/or potassium levels are high. Fuel content negligible. Test for glycol is negative.

FLUID CONDITION

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type. The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WCM2281502	WCM2281519	---
Sample Date		Client Info		15 Dec 2023	21 Jun 2022	---
Machine Age	mls	Client Info		0	125000	---
Oil Age	mls	Client Info		5000	0	---
Filter Age	mls	Client Info		0	0	---
Oil Changed		Client Info		N/A	N/A	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				ATTENTION	SEVERE	---
Iron	ppm	ASTM D5185m	>150	27	7	---
Chromium	ppm	ASTM D5185m	>20	0	<1	---
Nickel	ppm	ASTM D5185m	>5	0	0	---
Titanium	ppm	ASTM D5185m		0	0	---
Silver	ppm	ASTM D5185m	>2	0	<1	---
Aluminum	ppm	ASTM D5185m	>40	4	2	---
Lead	ppm	ASTM D5185m	>50	2	2	---
Copper	ppm	ASTM D5185m	>155	6	7	---
Tin	ppm	ASTM D5185m	>10	<1	<1	---
Vanadium	ppm	ASTM D5185m		0	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
Silicon	ppm	ASTM D5185m	>30	25	15	---
Potassium	ppm	ASTM D5185m	>20	2	<1	---
Fuel	%	ASTM D3524	>4.0	0.9	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol	%	*ASTM D2982		0.0	0.10	---
Soot %	%	*ASTM D7844		0	0.1	---
Nitration	Abs/cm	*ASTM D7624	>20	11.4	7.0	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	31.7	33.2	---
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	---
Sodium	ppm	ASTM D5185m	>400	▲ 104	▲ 348	---
Boron	ppm	ASTM D5185m		37	22	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		258	379	---
Manganese	ppm	ASTM D5185m		<1	<1	---
Magnesium	ppm	ASTM D5185m		477	24	---
Calcium	ppm	ASTM D5185m		1724	3235	---
Phosphorus	ppm	ASTM D5185m		743	1013	---
Zinc	ppm	ASTM D5185m		648	781	---
Sulfur	ppm	ASTM D5185m		2736	3408	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	28.3	34.9	---
Acid Number (AN)	mg KOH/g	ASTM D8045		1.40	0.93	---
Base Number (BN)	mg KOH/g	ASTM D2896		7.24	10.8	---
Visc @ 100°C	cSt	ASTM D445		▲ 8.7	10.5	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WCM2281502 **Received** : 12 Jan 2024
Lab Number : 06060391 **Diagnosed** : 18 Jan 2024
Unique Number : 10831773 **Diagnostician** : Jonathan Hester
Test Package : MOB 2 (Additional Tests: FuelDilution, PercentFuel, TBN)

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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)