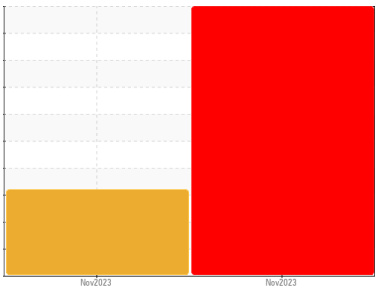
OIL ANALYSIS REPORT

Sample Rating Trend



GLYCOL

Machine Id
INFINITI 24864-03
Component
Gasoline Engine
Fluid
NOT GIVEN (--- GAL)

DIAGNOSIS

Recommendation
We advise that you check for the source of the coolant leak.

Wear
Turbocharger/blower wear is indicated.

Contamination
Sodium and/or potassium levels are high. Test for glycol is positive. Sodium and/or potassium levels are high. There is a high concentration of water present in the oil.

Fluid Condition
The AN level is acceptable for this fluid. The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WCM2005009**	WCM2005010	---
Sample Date		Client Info		**13 Nov 2023**	12 Nov 2023	---
Machine Age	mls	Client Info		**0**	0	---
Oil Age	mls	Client Info		**0**	0	---
Oil Changed		Client Info		**N/A**	N/A	---
Sample Status				**SEVERE**	SEVERE	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>150	**50**	0	---
Chromium	ppm	ASTM D5185m	>20	**0**	0	---
Nickel	ppm	ASTM D5185m	>5	**0**	0	---
Titanium	ppm	ASTM D5185m		**13**	0	---
Silver	ppm	ASTM D5185m	>2	▲ **17**	0	---
Aluminum	ppm	ASTM D5185m	>40	▲ **41**	0	---
Lead	ppm	ASTM D5185m	>50	**0**	<1	---
Copper	ppm	ASTM D5185m	>155	**19**	0	---
Tin	ppm	ASTM D5185m	>10	**7**	<1	---
Vanadium	ppm	ASTM D5185m		**0**	0	---
Cadmium	ppm	ASTM D5185m		**0**	0	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**57**	5	---
Barium	ppm	ASTM D5185m		**0**	0	---
Molybdenum	ppm	ASTM D5185m		**58**	0	---
Manganese	ppm	ASTM D5185m		**1**	0	---
Magnesium	ppm	ASTM D5185m		**338**	<1	---
Calcium	ppm	ASTM D5185m		**590**	0	---
Phosphorus	ppm	ASTM D5185m		**543**	9	---
Zinc	ppm	ASTM D5185m		**496**	0	---
Sulfur	ppm	ASTM D5185m		**1838**	11	---

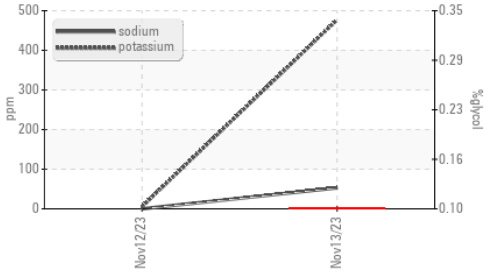
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	**20**	<1	---
Sodium	ppm	ASTM D5185m	>400	▲ **53**	0	---
Potassium	ppm	ASTM D5185m	>20	▲ **477**	6	---
Fuel	%	ASTM D3524	>4.0	**<1.0**	<1.0	---
Water	%	ASTM D6304	>0.2	● **1.36**	● 40.3	---
ppm Water	ppm	ASTM D6304	>2000	● **13600**	● 403000	---
Glycol	%	*ASTM D2982		● **0.10**	NEG	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		**0.1**	---	---
Nitration	Abs/cm	*ASTM D7624	>20	**12.9**	---	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	**8.6**	---	---

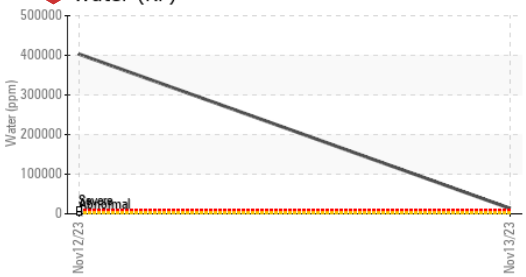
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	**11.5**	---	---
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.75**	0.041	---

OIL ANALYSIS REPORT

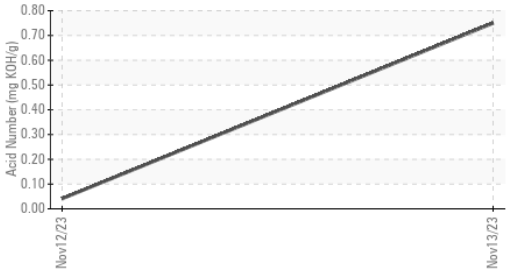
Glycol Contamination



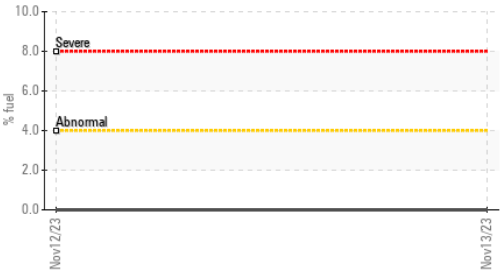
Water (KF)



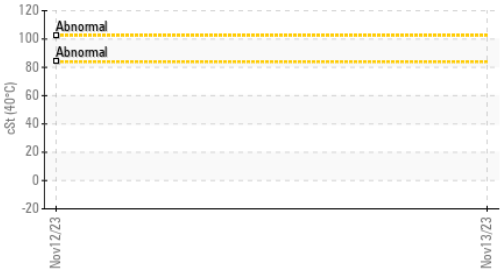
Acid Number



Fuel Dilution



Viscosity @ 40°C

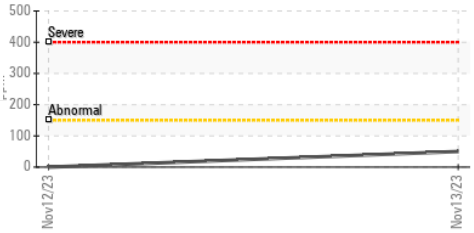


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**LIGHT**	NONE	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	---
Silt	scalar	*Visual	NONE	**NONE**	NONE	---
Debris	scalar	*Visual	NONE	**LIGHT**	NONE	---
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	---
Appearance	scalar	*Visual	NORML	**NORML**	NORML	---
Odor	scalar	*Visual	NORML	**NORML**	NORML	---
Emulsified Water	scalar	*Visual	>0.2	**0.2%**	0.2%	---
Free Water	scalar	*Visual		**NEG**	NEG	---

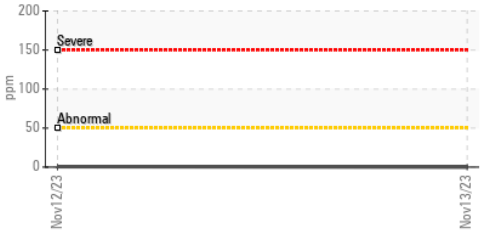
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445		**9**	1.17	---

GRAPHS

Iron (ppm)

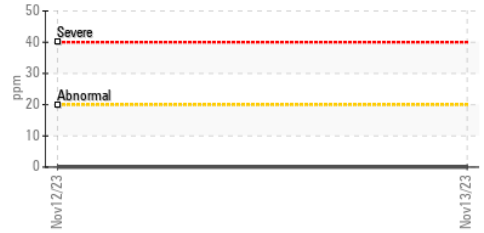


Lead (ppm)

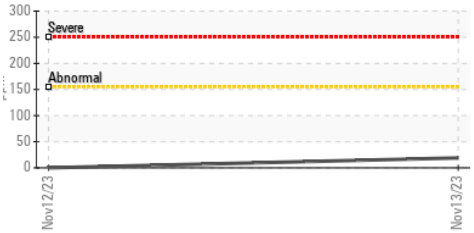


Aluminum (ppm)

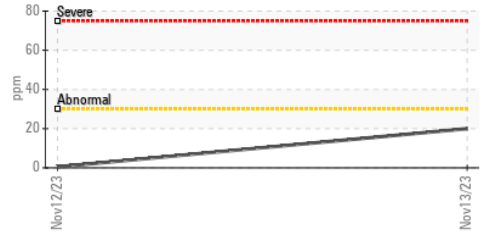
Chromium (ppm)



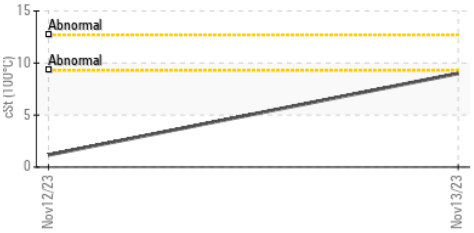
Copper (ppm)



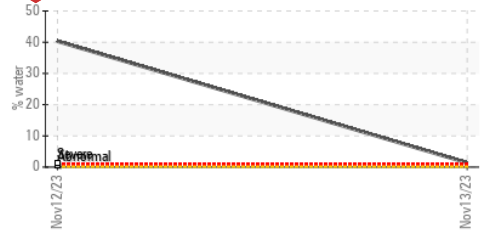
Silicon (ppm)



Viscosity @ 100°C



Water



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WCM2005009 **Received** : 14 Nov 2023
Lab Number : 06007119 **Diagnosed** : 20 Nov 2023
Unique Number : 10740881 **Diagnostician** : Doug Bogart
Test Package : MOB 2 (Additional Tests: FuelDilution, Glycol, KF, KV40, PercentFuel)

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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