



# OIL ANALYSIS REPORT

## Sample Rating Trend



DIRT



Machine Id  
**NISSAN 27399-010**  
 Component  
**Gasoline Engine**  
 Fluid  
 {not provided} (--- GAL)

### DIAGNOSIS

#### ▲ Recommendation

No corrective action is recommended at this time.

#### Wear

All component wear rates are normal.

#### ▲ Contamination

Elemental level of silicon (Si) above normal indicating ingress of seal material.

#### Fluid Condition

The AN level is acceptable for this fluid.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>WCM2278696</b>	---	---
Sample Date	Client Info			<b>17 Jul 2024</b>	---	---
Machine Age	hrs	Client Info		<b>0</b>	---	---
Oil Age	hrs	Client Info		<b>0</b>	---	---
Oil Changed	Client Info			<b>N/A</b>	---	---
Sample Status				<b>ABNORMAL</b>	---	---

CONTAMINATION		method	limit/base	current	history1	history2
Water	WC Method	>0.2		<b>NEG</b>	---	---
Glycol	WC Method			<b>NEG</b>	---	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>150	<b>2</b>	---	---
Chromium	ppm	ASTM D5185m	>20	<b>0</b>	---	---
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	---	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Silver	ppm	ASTM D5185m	>2	<b>0</b>	---	---
Aluminum	ppm	ASTM D5185m	>40	<b>&lt;1</b>	---	---
Lead	ppm	ASTM D5185m	>50	<b>0</b>	---	---
Copper	ppm	ASTM D5185m	>155	<b>&lt;1</b>	---	---
Tin	ppm	ASTM D5185m	>10	<b>0</b>	---	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	---	---
Cadmium	ppm	ASTM D5185m		<b>0</b>	---	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<b>32</b>	---	---
Barium	ppm	ASTM D5185m		<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185m		<b>98</b>	---	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Magnesium	ppm	ASTM D5185m		<b>576</b>	---	---
Calcium	ppm	ASTM D5185m		<b>1124</b>	---	---
Phosphorus	ppm	ASTM D5185m		<b>635</b>	---	---
Zinc	ppm	ASTM D5185m		<b>741</b>	---	---
Sulfur	ppm	ASTM D5185m		<b>3153</b>	---	---

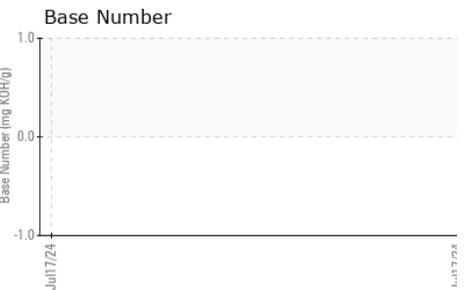
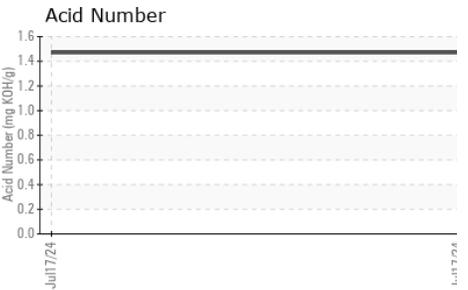
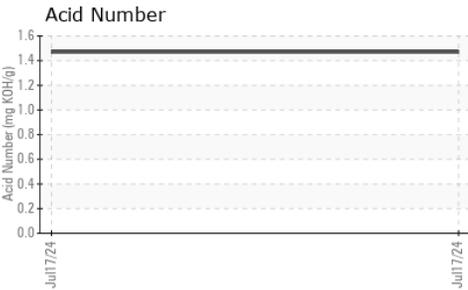
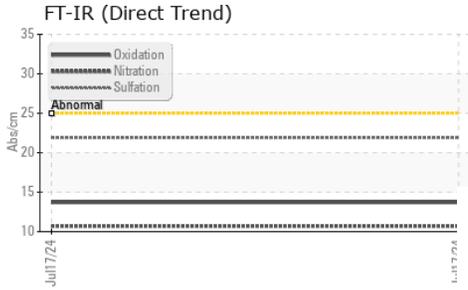
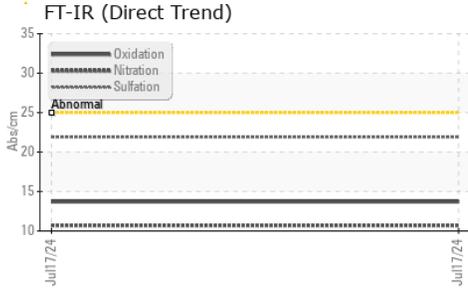
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	<b>▲ 30</b>	---	---
Sodium	ppm	ASTM D5185m	>400	<b>2</b>	---	---
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	---	---
Fuel	%	ASTM D3524	>4.0	<b>&lt;1.0</b>	---	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		<b>0</b>	---	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>10.7</b>	---	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>21.9</b>	---	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>13.7</b>	---	---
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>1.47</b>	---	---



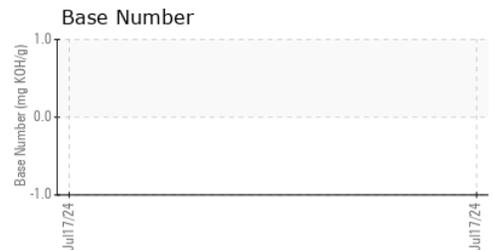
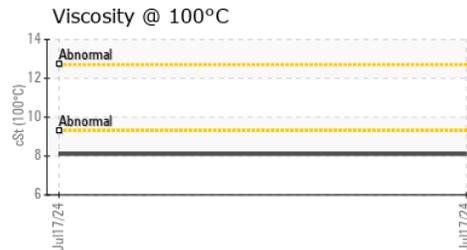
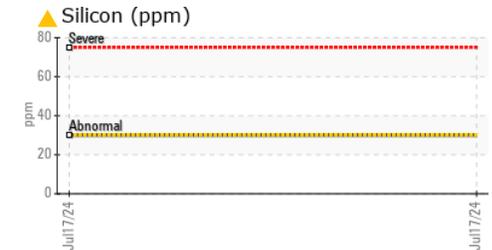
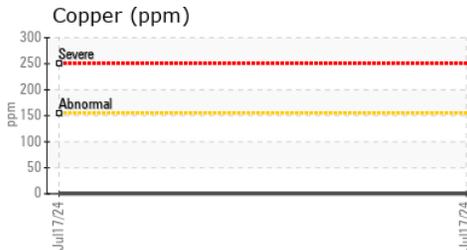
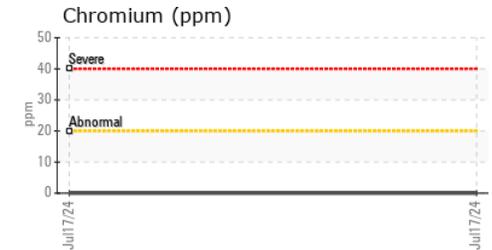
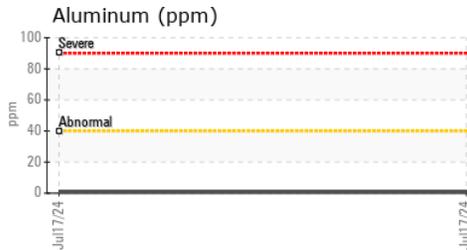
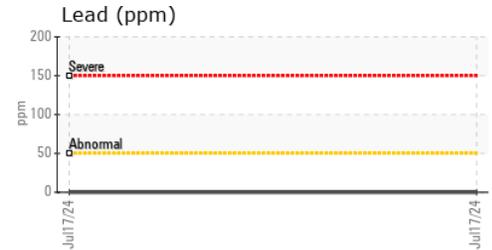
# OIL ANALYSIS REPORT



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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	<b>8.1</b>	---	---

### GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WCM2278696      **Received** : 17 Jul 2024  
**Lab Number** : **06239636**      **Tested** : 18 Jul 2024  
**Unique Number** : 11128470      **Diagnosed** : 18 Jul 2024 - Jonathan Hester  
**Test Package** : MOB 2 ( Additional Tests: FuelDilution, TBN )

**NORTH AMERICAN WEST AUTOMOTIVE FORENSIC SERVICES**  
 PO BOX 2220  
 MISSION VIEJO, CA 92690  
 Contact: CHAD TREDWAY  
 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.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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