



# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**MITSUBISHI 2**  
 Component  
**Diesel Engine**  
 Fluid  
**NOT GIVEN (--- QTS)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>WC0610130</b>	---	---
Sample Date	Client Info			<b>21 Jul 2023</b>	---	---
Machine Age	hrs	Client Info		<b>32759</b>	---	---
Oil Age	hrs	Client Info		<b>703</b>	---	---
Oil Changed	Client Info			<b>N/A</b>	---	---
Sample Status				<b>NORMAL</b>	---	---

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method	>5		<b>&lt;1.0</b>	---	---
Glycol	WC Method			<b>NEG</b>	---	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	<b>30</b>	---	---
Chromium	ppm	ASTM D5185m	>20	<b>2</b>	---	---
Nickel	ppm	ASTM D5185m	>4	<b>&lt;1</b>	---	---
Titanium	ppm	ASTM D5185m		<b>0</b>	---	---
Silver	ppm	ASTM D5185m	>3	<b>0</b>	---	---
Aluminum	ppm	ASTM D5185m	>20	<b>4</b>	---	---
Lead	ppm	ASTM D5185m	>40	<b>6</b>	---	---
Copper	ppm	ASTM D5185m	>330	<b>15</b>	---	---
Tin	ppm	ASTM D5185m	>15	<b>4</b>	---	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Cadmium	ppm	ASTM D5185m		<b>0</b>	---	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<b>11</b>	---	---
Barium	ppm	ASTM D5185m		<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185m		<b>239</b>	---	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Magnesium	ppm	ASTM D5185m		<b>17</b>	---	---
Calcium	ppm	ASTM D5185m		<b>4561</b>	---	---
Phosphorus	ppm	ASTM D5185m		<b>1309</b>	---	---
Zinc	ppm	ASTM D5185m		<b>1443</b>	---	---
Sulfur	ppm	ASTM D5185m		<b>5553</b>	---	---

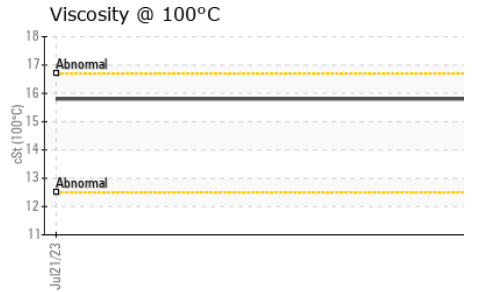
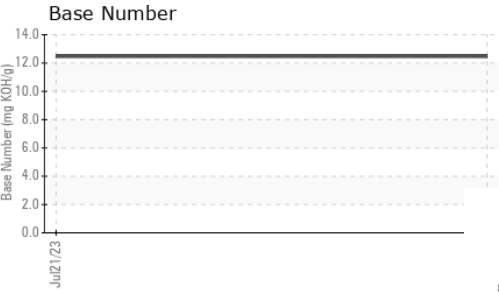
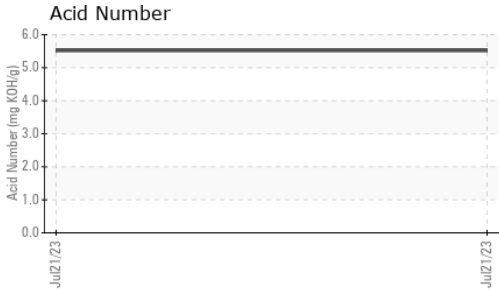
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>11</b>	---	---
Sodium	ppm	ASTM D5185m		<b>9</b>	---	---
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	---	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	<b>1.7</b>	---	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>13.4</b>	---	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>40.7</b>	---	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>41.1</b>	---	---
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>5.52</b>	---	---
Base Number (BN)	mg KOH/g	ASTM D2896		<b>12.47</b>	---	---



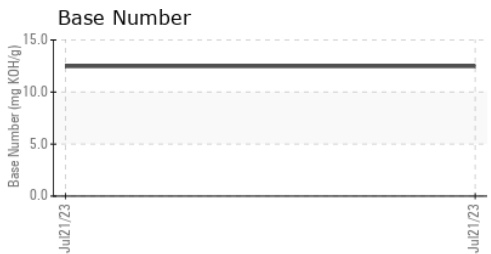
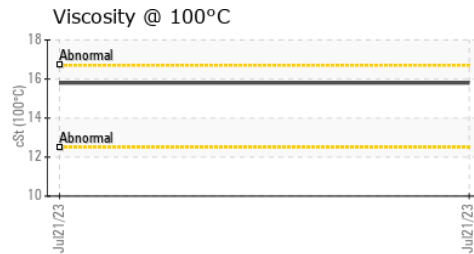
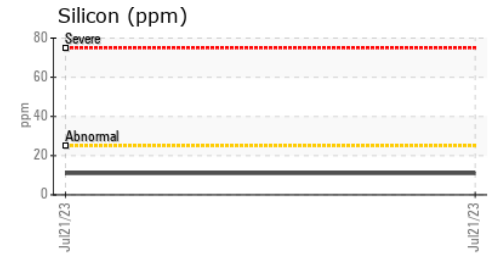
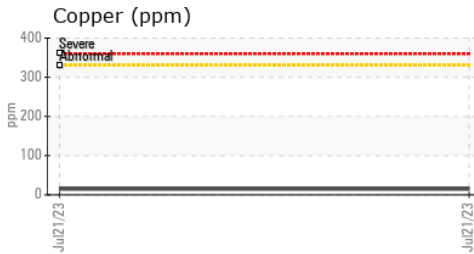
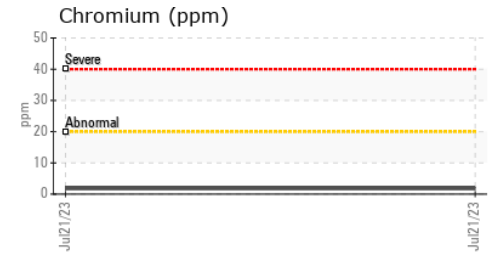
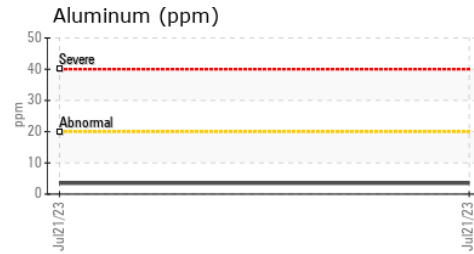
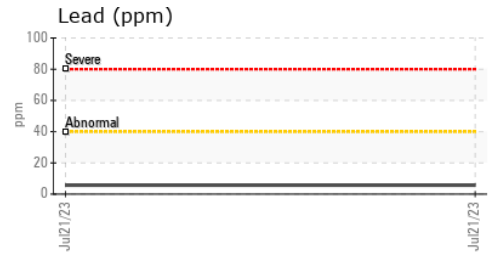
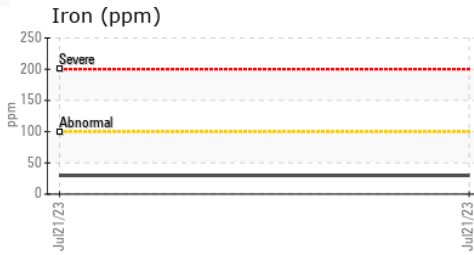
# OIL ANALYSIS REPORT



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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.8	---	---

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0610130 **Received** : 23 Aug 2023  
**Lab Number** : 05932936 **Diagnosed** : 28 Aug 2023  
**Unique Number** : 10618207 **Diagnostician** : Doug Bogart  
**Test Package** : MOB 2

**BROOKSIDE LUMBER**  
 12973 SAWMILL RD  
 ALLENSVILLE, PA  
 US 17002  
 Contact: Service Manager

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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F: