



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**TAKEUCHI TL10V2 410005400**  
 Component  
**Diesel Engine**  
 Fluid  
**DIESEL ENGINE OIL SAE 15W40 (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>ML0002672</b>	VCP386500	---
Sample Date		Client Info		<b>12 Jul 2024</b>	11 Nov 2022	---
Machine Age	hrs	Client Info		<b>889</b>	368	---
Oil Age	hrs	Client Info		<b>889</b>	0	---
Filter Age	hrs	Client Info		<b>0</b>	0	---
Oil Changed		Client Info		<b>Changed</b>	N/A	---
Filter Changed		Client Info		<b>Changed</b>	N/A	---
Sample Status				<b>NORMAL</b>	ABNORMAL	---

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>35</b>	▲ 235	---
Chromium	ppm	ASTM D5185m	>20	<b>1</b>	3	---
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	1	---
Titanium	ppm	ASTM D5185m		<b>0</b>	2	---
Silver	ppm	ASTM D5185m	>3	<b>0</b>	2	---
Aluminum	ppm	ASTM D5185m	>20	<b>4</b>	▲ 77	---
Lead	ppm	ASTM D5185m	>40	<b>0</b>	0	---
Copper	ppm	ASTM D5185m	>330	<b>93</b>	30	---
Tin	ppm	ASTM D5185m	>15	<b>0</b>	12	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	▲ MODER	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

**CONTAMINATION**

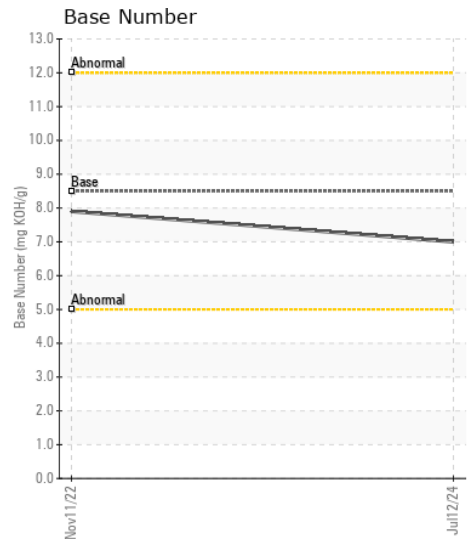
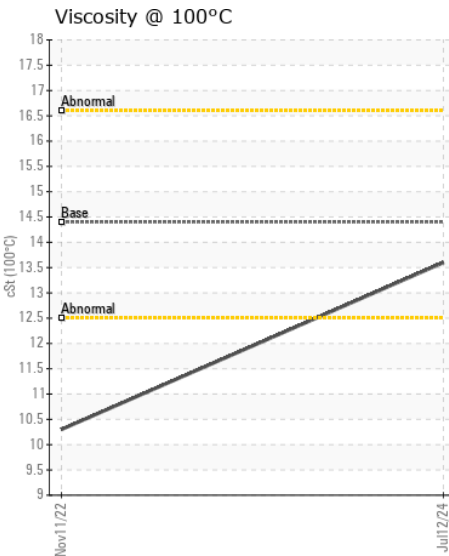
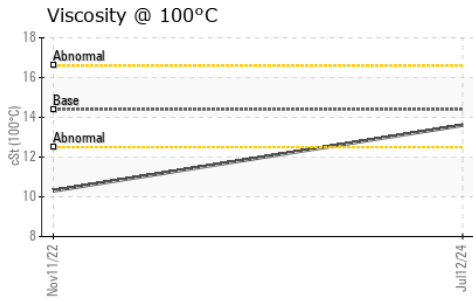
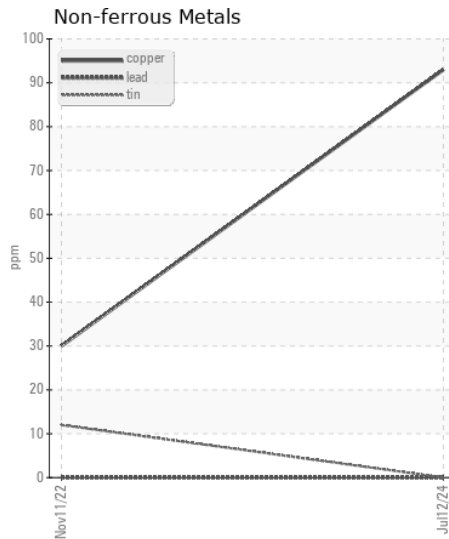
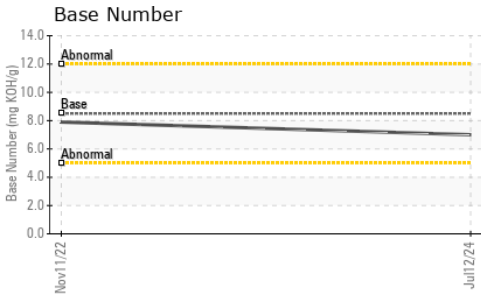
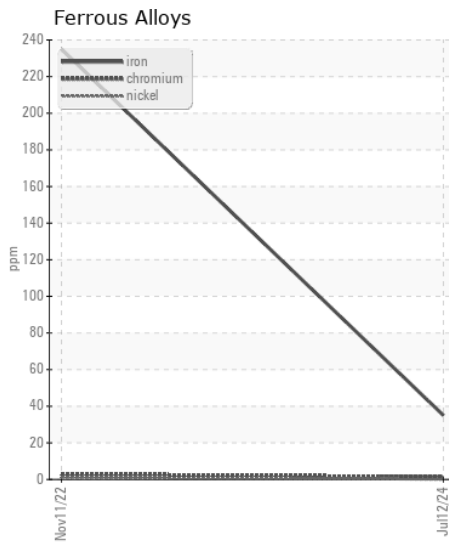
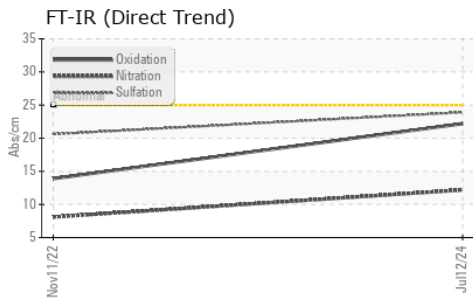
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>10</b>	▲ 41	---
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	8	---
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	---
Water		WC Method	>0.2	<b>NEG</b>	NEG	---
Glycol		WC Method		<b>NEG</b>	NEG	---
Soot %	%	*ASTM D7844	>3	<b>0.3</b>	0.2	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>12.2</b>	8.1	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>23.9</b>	20.6	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	---

**FLUID CONDITION**

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m	>158	<b>5</b>	4	---
Boron	ppm	ASTM D5185m	250	<b>41</b>	80	---
Barium	ppm	ASTM D5185m	10	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m	100	<b>35</b>	19	---
Manganese	ppm	ASTM D5185m		<b>2</b>	4	---
Magnesium	ppm	ASTM D5185m	450	<b>892</b>	527	---
Calcium	ppm	ASTM D5185m	3000	<b>1745</b>	1196	---
Phosphorus	ppm	ASTM D5185m	1150	<b>849</b>	654	---
Zinc	ppm	ASTM D5185m	1350	<b>1209</b>	810	---
Sulfur	ppm	ASTM D5185m	4250	<b>2971</b>	2916	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>22.2</b>	13.9	---
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	<b>7.0</b>	7.9	---
Visc @ 100°C	cSt	ASTM D445	14.4	<b>13.6</b>	10.3	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : ML0002672 **Received** : 16 Jul 2024  
**Lab Number** : 06237620 **Tested** : 17 Jul 2024  
**Unique Number** : 11126454 **Diagnosed** : 18 Jul 2024 - Don Baldrige  
**Test Package** : CONST ( Additional Tests: TBN )

**MCCLUNG-LOGAN EQUIPMENT CO - SALEM**  
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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)