



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area  
**[ASSURED CONTRACTING]**  
 Machine Id  
**TAKEUCHI TL10V2 410002681**  
 Component  
**Diesel Engine**  
 Fluid  
**VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3 (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>ML0000766</b>	VCP283915	---
Sample Date		Client Info		<b>20 Feb 2024</b>	31 Aug 2020	---
Machine Age	hrs	Client Info		<b>586</b>	345	---
Oil Age	hrs	Client Info		<b>586</b>	345	---
Filter Age	hrs	Client Info		<b>586</b>	0	---
Oil Changed		Client Info		<b>Changed</b>	Not Changed	---
Filter Changed		Client Info		<b>N/A</b>	Changed	---
Sample Status				<b>NORMAL</b>	NORMAL	---

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>13</b>	14	---
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	---
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	0	---
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	---
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>20	<b>3</b>	0	---
Lead	ppm	ASTM D5185m	>40	<b>1</b>	0	---
Copper	ppm	ASTM D5185m	>330	<b>25</b>	7	---
Tin	ppm	ASTM D5185m	>15	<b>0</b>	<1	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

**CONTAMINATION**

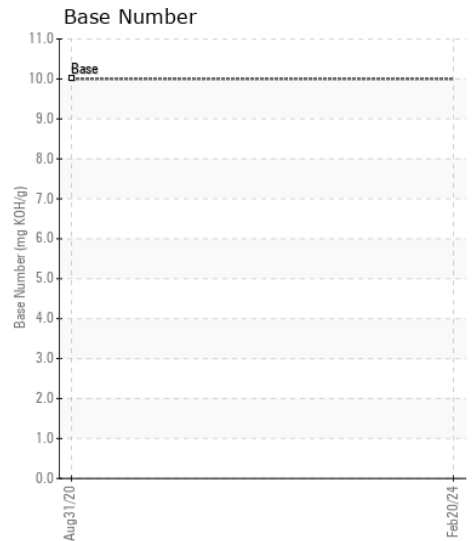
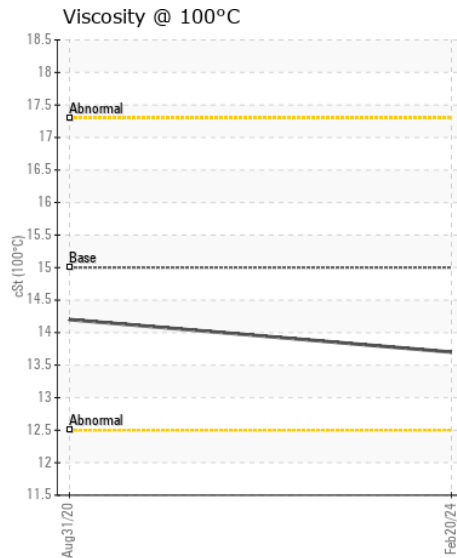
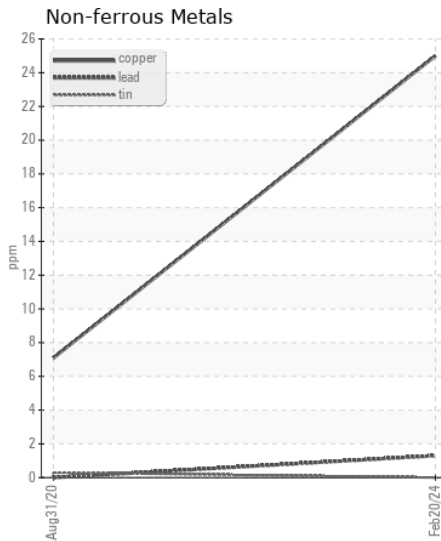
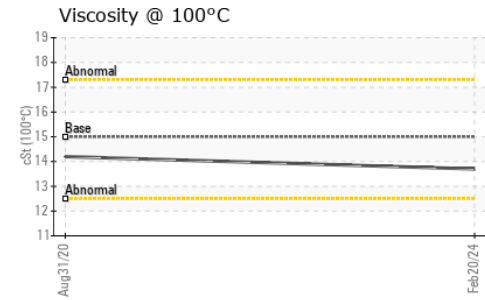
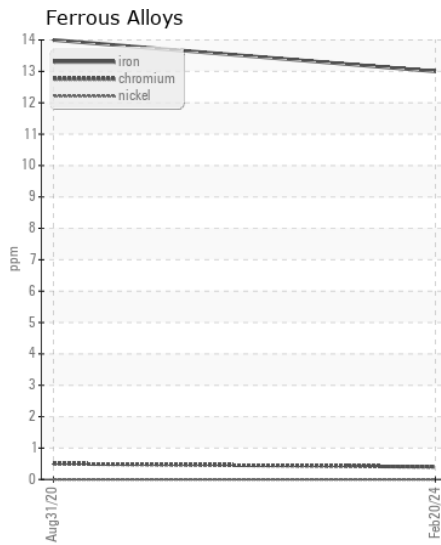
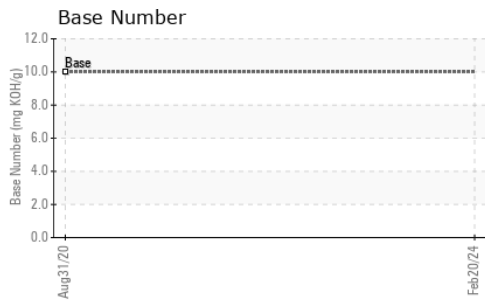
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>5</b>	5	---
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	<1	---
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>0.2</b>	0.2	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>10.5</b>	8.6	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>19.8</b>	20.2	---
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 acceptable for the time in service.

Sodium	ppm	ASTM D5185m		<b>5</b>	6	---
Boron	ppm	ASTM D5185m	2.5	<b>66</b>	92	---
Barium	ppm	ASTM D5185m	0.0	<b>0</b>	<1	---
Molybdenum	ppm	ASTM D5185m	0.7	<b>79</b>	55	---
Manganese	ppm	ASTM D5185m	0.0	<b>&lt;1</b>	<1	---
Magnesium	ppm	ASTM D5185m	256	<b>264</b>	719	---
Calcium	ppm	ASTM D5185m	2057	<b>1991</b>	1386	---
Phosphorus	ppm	ASTM D5185m	935	<b>1041</b>	878	---
Zinc	ppm	ASTM D5185m	1223	<b>1259</b>	1048	---
Sulfur	ppm	ASTM D5185m	4079	<b>3578</b>	2668	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>16.3</b>	17.5	---
Base Number (BN)	mg KOH/g	ASTM D2896	10	<b>6.2</b>	---	---
Visc @ 100°C	cSt	ASTM D445	15.0	<b>13.7</b>	14.2	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : ML0000766 **Received** : 26 Feb 2024  
**Lab Number** : 06100728 **Tested** : 27 Feb 2024  
**Unique Number** : 10898958 **Diagnosed** : 28 Feb 2024 - Don Baldrige  
**Test Package** : CONST ( Additional Tests: TBN )

**MCCLUNG-LOGAN EQUIPMENT CO - CHESAPEAKE**  
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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)