MOB I

VOLVO

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[8015]
Machine Id
TAKEUCHI 410005178
Component
Diesel Engine
Fluid
CAT DIESEL ENGINE OIL 10W30 (--- GAL)

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.

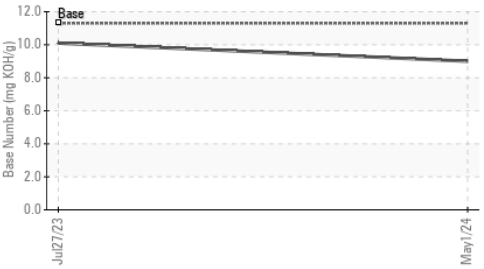
FLUID CONDITION

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

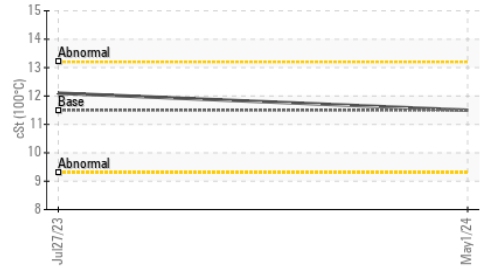
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**VCP434346**	VCP383278	---
Sample Date		Client Info		**01 May 2024**	27 Jul 2023	---
Machine Age	hrs	Client Info		**2080**	1560	---
Oil Age	hrs	Client Info		**0**	0	---
Filter Age	hrs	Client Info		**0**	0	---
Oil Changed		Client Info		**Changed**	Changed	---
Filter Changed		Client Info		**Changed**	Changed	---
Sample Status				**NORMAL**	NORMAL	---
Iron	ppm	ASTM D5185m	>100	**21**	19	---
Chromium	ppm	ASTM D5185m	>20	**<1**	<1	---
Nickel	ppm	ASTM D5185m	>4	**<1**	<1	---
Titanium	ppm	ASTM D5185m		**<1**	<1	---
Silver	ppm	ASTM D5185m	>3	**0**	0	---
Aluminum	ppm	ASTM D5185m	>20	**2**	6	---
Lead	ppm	ASTM D5185m	>40	**0**	<1	---
Copper	ppm	ASTM D5185m	>330	**3**	5	---
Tin	ppm	ASTM D5185m	>15	**<1**	<1	---
Vanadium	ppm	ASTM D5185m		**0**	0	---
White Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Silicon	ppm	ASTM D5185m	>25	**7**	13	---
Potassium	ppm	ASTM D5185m	>20	**2**	2	---
Fuel		WC Method	>5	**<1.0**	<1.0	---
Water		WC Method	>0.2	**NEG**	NEG	---
Glycol		WC Method		**NEG**	NEG	---
Soot %	%	*ASTM D7844	>3	**0.3**	0.3	---
Nitration	Abs/cm	*ASTM D7624	>20	**11.7**	11.6	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	**23.9**	25.0	---
Silt	scalar	*Visual	NONE	**NONE**	NONE	---
Debris	scalar	*Visual	NONE	**NONE**	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	**NEG**	NEG	---
Sodium	ppm	ASTM D5185m		**2**	4	---
Boron	ppm	ASTM D5185m	145	**40**	43	---
Barium	ppm	ASTM D5185m	0.0	**1**	0	---
Molybdenum	ppm	ASTM D5185m	0.0	**43**	45	---
Manganese	ppm	ASTM D5185m		**<1**	<1	---
Magnesium	ppm	ASTM D5185m	248	**506**	615	---
Calcium	ppm	ASTM D5185m	2203	**1707**	1979	---
Phosphorus	ppm	ASTM D5185m	731	**1000**	1068	---
Zinc	ppm	ASTM D5185m	1460	**1115**	1350	---
Sulfur	ppm	ASTM D5185m	5088	**2684**	3781	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	**25.1**	25.8	---
Base Number (BN)	mg KOH/g	ASTM D2896	11.3	**9.0**	10.1	---
Visc @ 100°C	cSt	ASTM D445	11.5	**11.5**	12.1	---

FT-IR (Direct Trend)

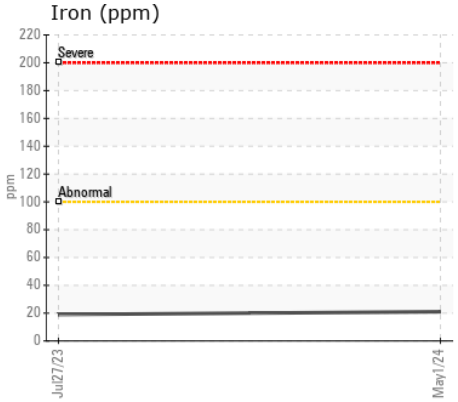
Base Number



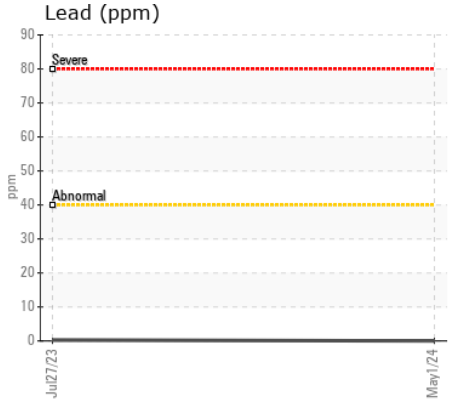
Viscosity @ 100°C



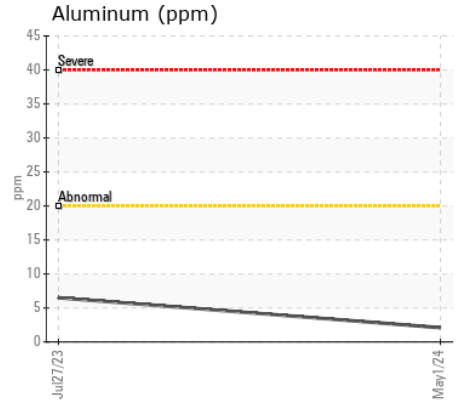
Iron (ppm)



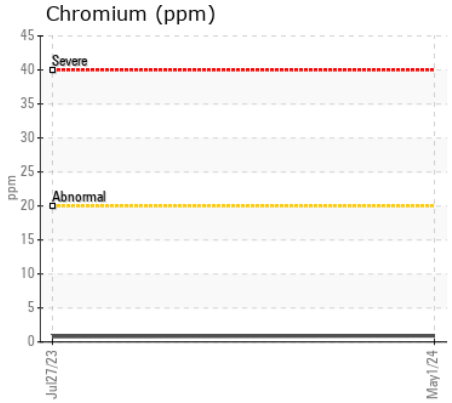
Lead (ppm)



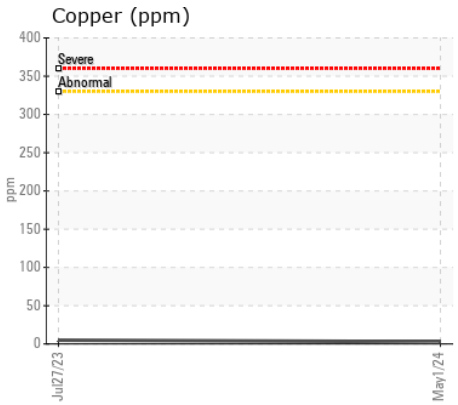
Aluminum (ppm)



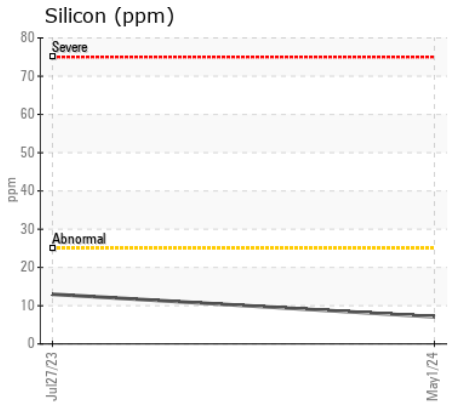
Chromium (ppm)



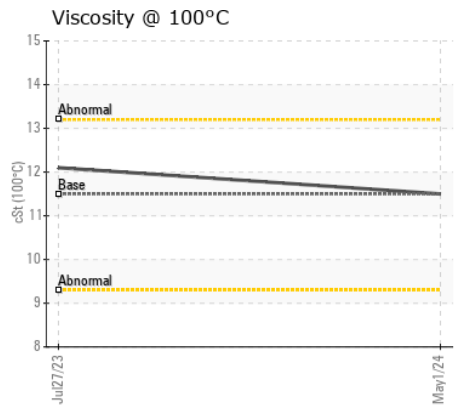
Copper (ppm)



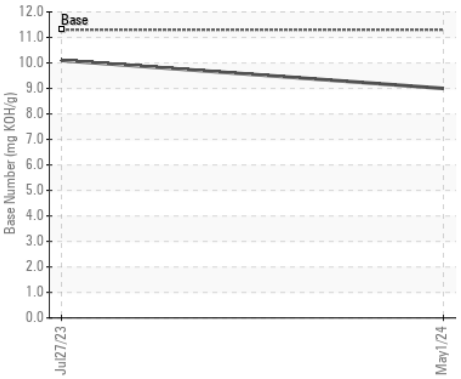
Silicon (ppm)



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP434346
Lab Number : 06194960
Unique Number : 11057083
Test Package : MOB 1 (Additional Tests: TBN)

Received : 30 May 2024
Tested : 31 May 2024
Diagnosed : 31 May 2024 - Don Baldridge

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)

LEONARDS CONTRACTING
30850 STEPHENSON HWY
MADISON HEIGHTS, MI
US 48071
Contact: LARRY SCHRADE
larry.schrade@sdevelop.com
T: (810)499-1953
F: x: