



VOLVO

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION

Area
[716614 SOUTHLAND]
 Machine Id
TAKEUCHI TB235 604814
 Component
Diesel Engine
 Fluid
DIESEL ENGINE OIL SAE 15W40 (--- GAL)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP454530	VCP454915	---
Sample Date		Client Info		17 May 2024	17 May 2024	---
Machine Age	hrs	Client Info		529	581	---
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				ATTENTION	ABNORMAL	---

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185m	>100	89	94	---
Chromium	ppm	ASTM D5185m	>20	2	<1	---
Nickel	ppm	ASTM D5185m	>4	<1	<1	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m	>3	1	<1	---
Aluminum	ppm	ASTM D5185m	>20	6	7	---
Lead	ppm	ASTM D5185m	>40	6	4	---
Copper	ppm	ASTM D5185m	>330	16	15	---
Tin	ppm	ASTM D5185m	>15	1	1	---
Vanadium	ppm	ASTM D5185m		<1	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

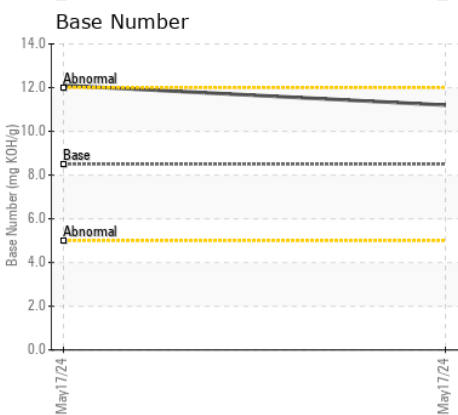
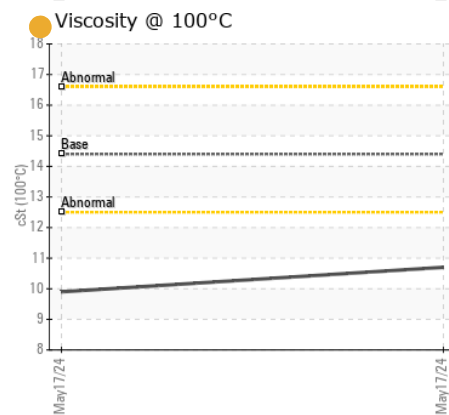
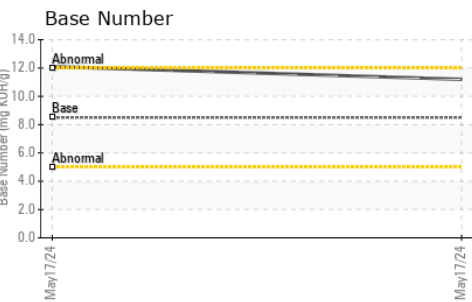
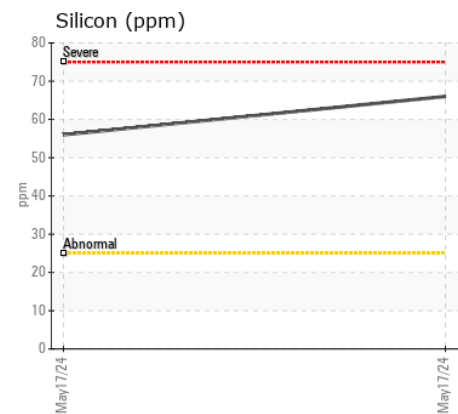
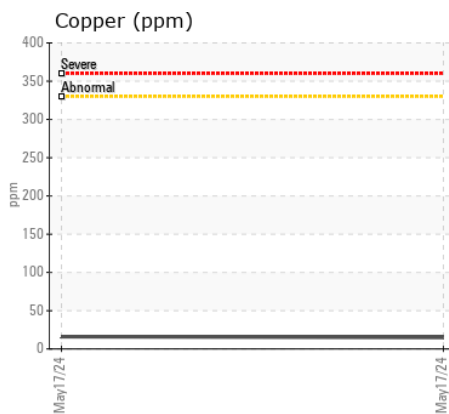
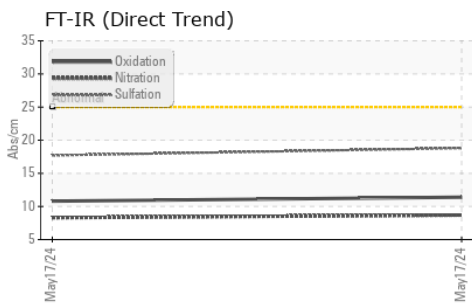
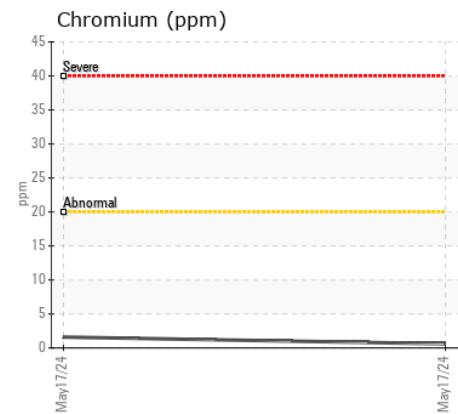
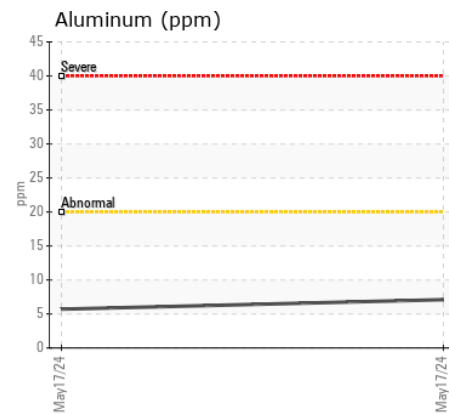
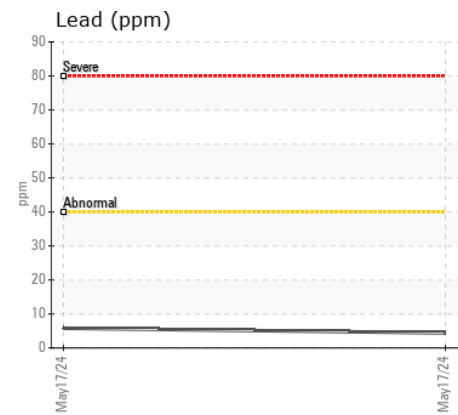
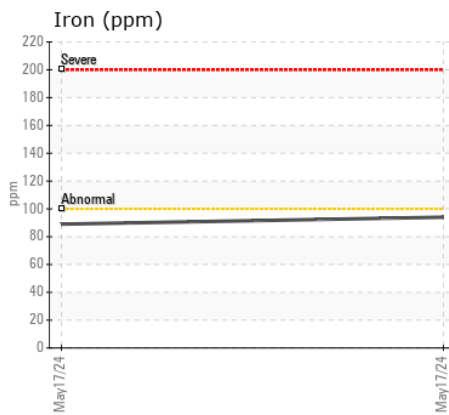
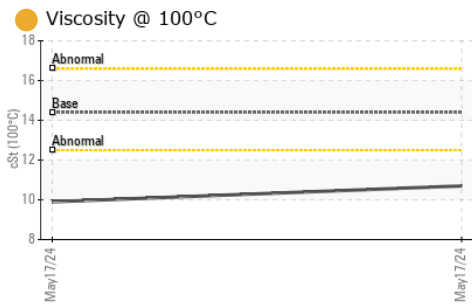
Tests indicate that there is no fuel present in the oil. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	56	66	---
Potassium	ppm	ASTM D5185m	>20	4	2	---
Fuel	%	ASTM D3524	>5	0.2	0.3	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.5	0.4	---
Nitration	Abs/cm	*ASTM D7624	>20	8.7	8.3	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.8	17.7	---
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	---

FLUID CONDITION

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Sodium	ppm	ASTM D5185m	>158	20	30	---
Boron	ppm	ASTM D5185m	250	33	41	---
Barium	ppm	ASTM D5185m	10	14	15	---
Molybdenum	ppm	ASTM D5185m	100	102	116	---
Manganese	ppm	ASTM D5185m		3	3	---
Magnesium	ppm	ASTM D5185m	450	37	20	---
Calcium	ppm	ASTM D5185m	3000	3880	4117	---
Phosphorus	ppm	ASTM D5185m	1150	1031	1105	---
Zinc	ppm	ASTM D5185m	1350	1322	1410	---
Sulfur	ppm	ASTM D5185m	4250	5859	7588	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	11.4	10.8	---
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	11.2	12.1	---
Visc @ 100°C	cSt	ASTM D445	14.4	10.7	9.9	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP454530 **Received** : 28 May 2024
Lab Number : 06191821 **Tested** : 30 May 2024
Unique Number : 11048573 **Diagnosed** : 30 May 2024 - Sean Felton
Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel, TBN)

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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)