



THE G. W. VAN KEPPEL CO.  
Construction Equipment

# OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>



Machine Id  
**VOLVO L70H 625279**  
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		VKC0001120	---	---
Sample Date		Client Info		10 Jun 2024	---	---
Machine Age	hrs	Client Info		572	---	---
Oil Age	hrs	Client Info		572	---	---
Filter Age	hrs	Client Info		572	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		Changed	---	---
Sample Status				<b>NORMAL</b>	---	---

## WEAR

Metal levels are typical for a components first oil change.

Iron	ppm	ASTM D5185m	>100	37	---	---
Chromium	ppm	ASTM D5185m	>10	5	---	---
Nickel	ppm	ASTM D5185m	>10	0	---	---
Titanium	ppm	ASTM D5185m		0	---	---
Silver	ppm	ASTM D5185m	>2	0	---	---
Aluminum	ppm	ASTM D5185m	>10	10	---	---
Lead	ppm	ASTM D5185m	>20	<1	---	---
Copper	ppm	ASTM D5185m	>15	8	---	---
Tin	ppm	ASTM D5185m	>10	3	---	---
Vanadium	ppm	ASTM D5185m		0	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

## CONTAMINATION

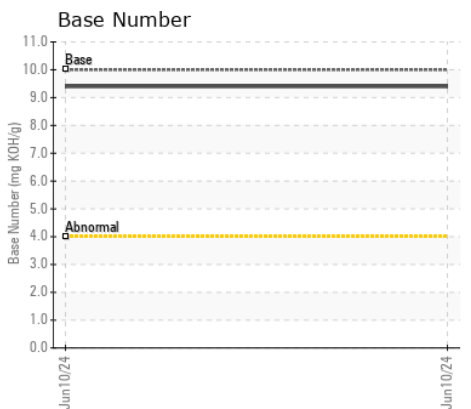
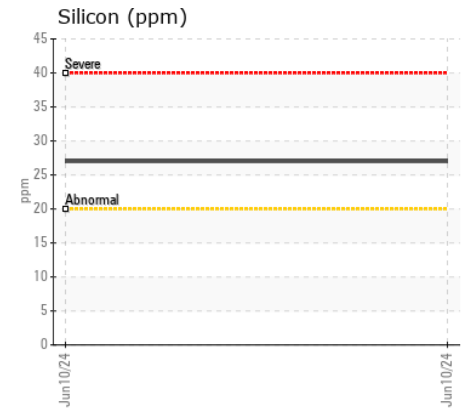
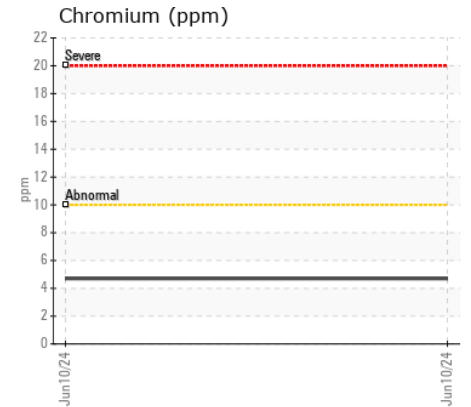
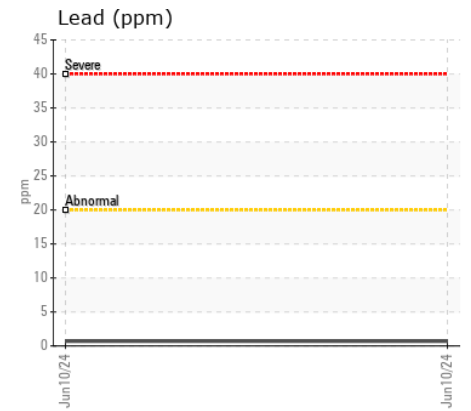
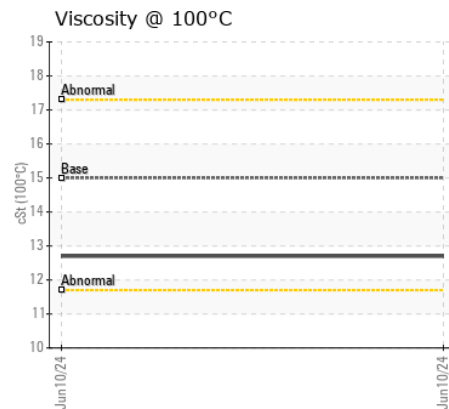
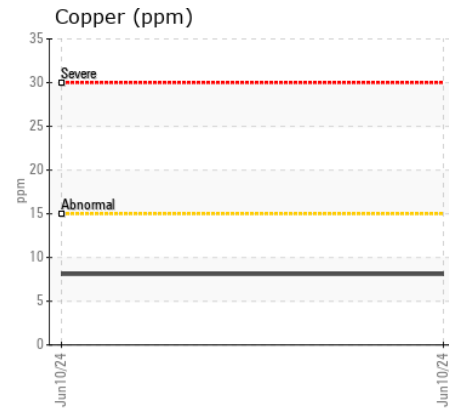
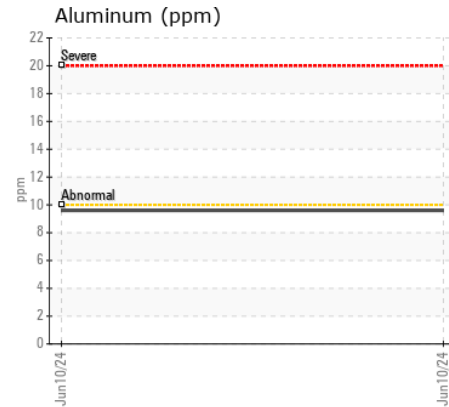
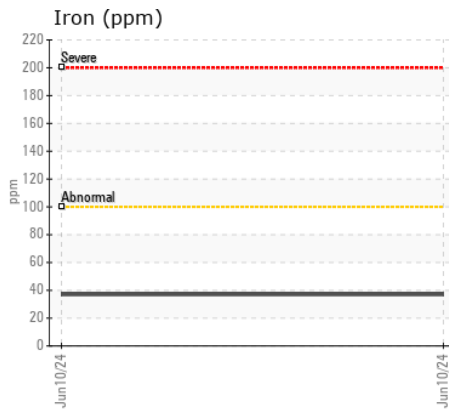
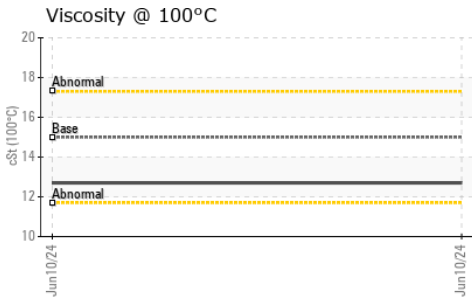
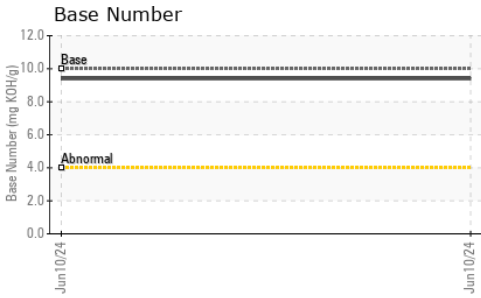
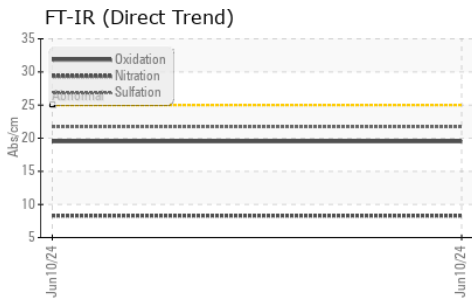
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	27	---	---
Potassium	ppm	ASTM D5185m	>20	2	---	---
Fuel		WC Method	>6.0	<1.0	---	---
Water		WC Method	>0.1	NEG	---	---
Glycol		WC Method		NEG	---	---
Soot %	%	*ASTM D7844	>3	0.6	---	---
Nitration	Abs/cm	*ASTM D7624	>20	8.3	---	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.7	---	---
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	>0.1	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		5	---	---
Boron	ppm	ASTM D5185m	2.5	32	---	---
Barium	ppm	ASTM D5185m	0.0	4	---	---
Molybdenum	ppm	ASTM D5185m	0.7	39	---	---
Manganese	ppm	ASTM D5185m	0.0	5	---	---
Magnesium	ppm	ASTM D5185m	256	587	---	---
Calcium	ppm	ASTM D5185m	2057	1690	---	---
Phosphorus	ppm	ASTM D5185m	935	999	---	---
Zinc	ppm	ASTM D5185m	1223	1167	---	---
Sulfur	ppm	ASTM D5185m	4079	3796	---	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.5	---	---
Base Number (BN)	mg KOH/g	ASTM D2896	10	9.4	---	---
Visc @ 100°C	cSt	ASTM D445	15.0	12.7	---	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : VKC0001120 **Received** : 05 Jul 2024  
**Lab Number** : 06229413 **Tested** : 09 Jul 2024  
**Unique Number** : 11112906 **Diagnosed** : 09 Jul 2024 - Wes Davis  
**Test Package** : MOBCE ( Additional Tests: TBN )

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)

**GW VAN KEPPEL CO**  
 1801 NORTH 9TH ST  
 KANSAS CITY, KS  
 US 66110  
 Contact: PAT SAUSE  
 psause@vankeppel.com

T:  
 F: (913)281-4815