



THE G. W. VAN KEPPEL CO.
Construction Equipment

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
[E AND S ROCK]
Machine Id
VOLVO EC380E 29218 (S/N 314103)
Component
Swing Drive
Fluid
VOLVO PREMIUM GEAR OIL 80W-90 GL-5 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VKC0001092	VKC0000863	VKC0000471
Sample Date		Client Info		06 Feb 2024	13 Oct 2023	29 Sep 2022
Machine Age	hrs	Client Info		5993	5571	3841
Oil Age	hrs	Client Info		0	0	1841
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	ATTENTION	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>1200	207	242	223
Chromium	ppm	ASTM D5185m	>10	2	2	3
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	2	3
Lead	ppm	ASTM D5185m	>50	<1	0	0
Copper	ppm	ASTM D5185m	>50	5	8	9
Tin	ppm	ASTM D5185m	>10	<1	<1	0
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

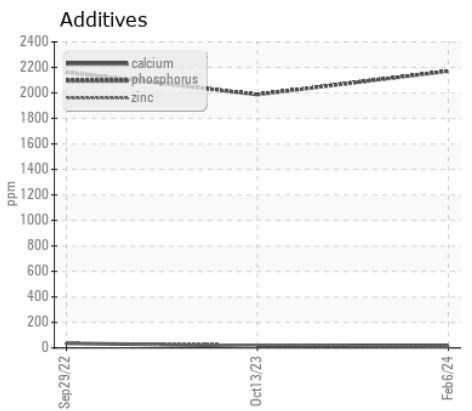
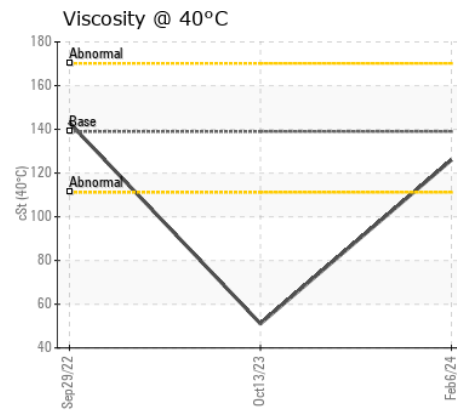
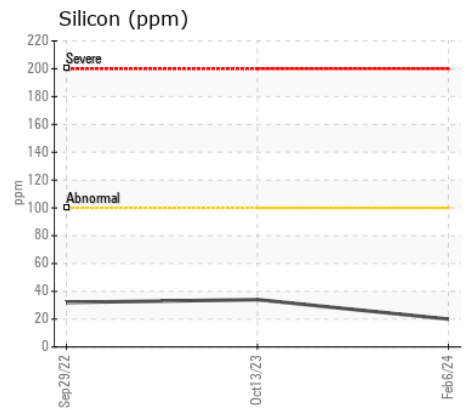
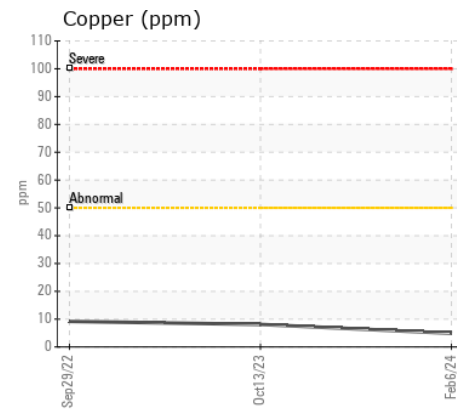
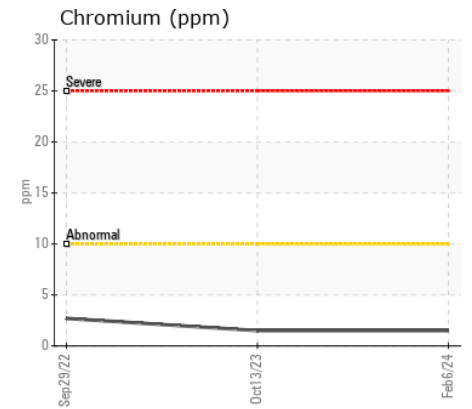
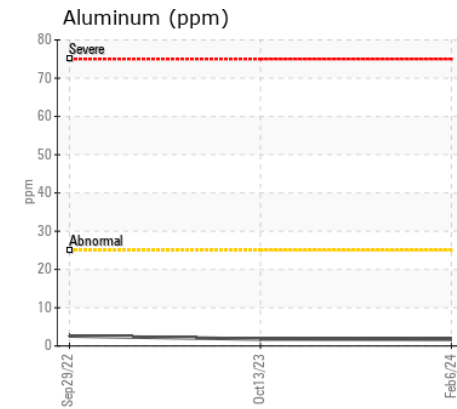
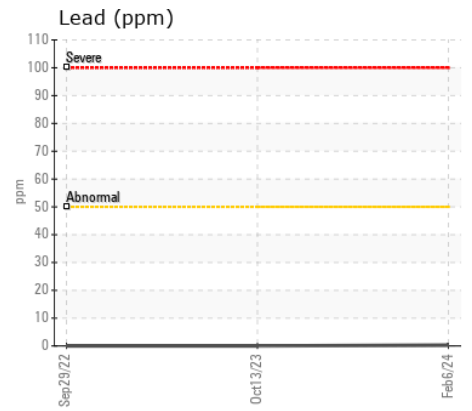
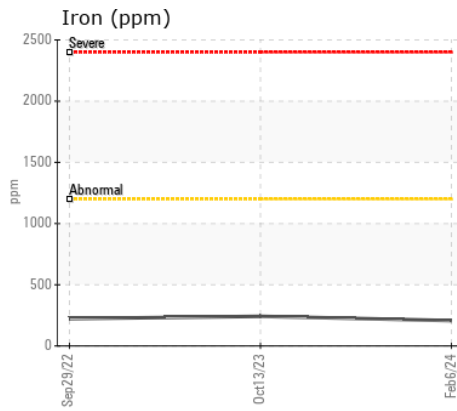
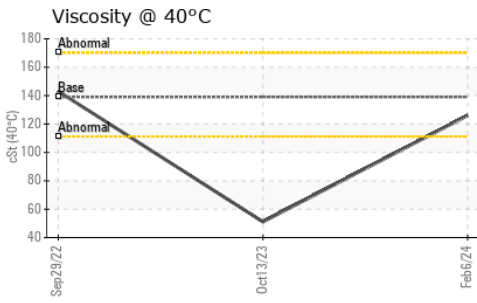
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>100	20	34	32
Potassium	ppm	ASTM D5185m	>20	<1	2	0
Water		WC Method	>0.25	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.25	NEG	NEG	NEG

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		<1	2	0
Boron	ppm	ASTM D5185m	379	235	179	221
Barium	ppm	ASTM D5185m	0.0	0	0	0
Molybdenum	ppm	ASTM D5185m	0.8	0	0	<1
Manganese	ppm	ASTM D5185m	0.0	2	2	3
Magnesium	ppm	ASTM D5185m	31	2	<1	0
Calcium	ppm	ASTM D5185m	38	17	15	37
Phosphorus	ppm	ASTM D5185m	1077	2171	1987	2162
Zinc	ppm	ASTM D5185m	46	9	23	36
Sulfur	ppm	ASTM D5185m	23526	22991	26485	25056
Visc @ 40°C	cSt	ASTM D445	139	126	▲ 51.1	143



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VKC0001092 **Received** : 14 Feb 2024
Lab Number : 06089736 **Tested** : 16 Feb 2024
Unique Number : 10877181 **Diagnosed** : 16 Feb 2024 - Don Baldrige
Test Package : MOBCE

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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)