



VOLVO

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area

[730410]

Machine Id

310132 VOLVO EC380 310132

Component

Swing Drive

Fluid

VOLVO PREMIUM GEAR OIL 85W-140 GL-5 (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP439815	VCP307859	VCP290482
Sample Date		Client Info		25 Jun 2024	20 May 2021	18 Dec 2020
Machine Age	hrs	Client Info		11538	7049	6414
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changed	Changed	Not Changed
Filter Changed		Client Info		Not Changed	Not Changed	Not Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR

Bearing and/or bushing wear is indicated.

Iron	ppm	ASTM D5185m	>1200	371	349	332
Chromium	ppm	ASTM D5185m	>10	9	9	9
Nickel	ppm	ASTM D5185m	>10	0	<1	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	<1	<1
Aluminum	ppm	ASTM D5185m	>25	5	5	4
Lead	ppm	ASTM D5185m	>50	3	1	<1
Copper	ppm	ASTM D5185m	>50	▲ 420	▲ 291	▲ 269
Tin	ppm	ASTM D5185m	>10	0	<1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	MODER	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

There is no indication of any contamination in the oil.

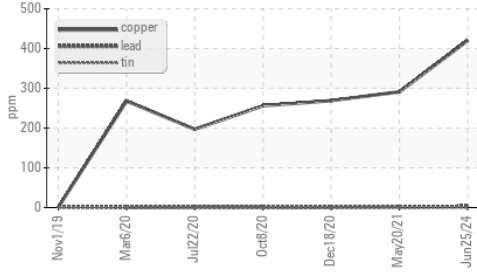
Silicon	ppm	ASTM D5185m	>100	36	34	32
Potassium	ppm	ASTM D5185m	>20	15	11	9
Water		WC Method	>0.25	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.25	NEG	NEG	NEG

FLUID CONDITION

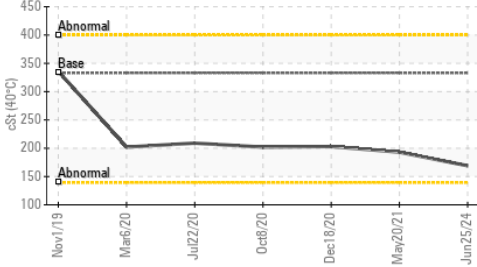
The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		3	2	<1
Boron	ppm	ASTM D5185m	111	36	50	49
Barium	ppm	ASTM D5185m	0.0	5	1	0
Molybdenum	ppm	ASTM D5185m	0.9	1	1	1
Manganese	ppm	ASTM D5185m	0.0	14	11	11
Magnesium	ppm	ASTM D5185m	39	2	3	1
Calcium	ppm	ASTM D5185m	93	168	74	34
Phosphorus	ppm	ASTM D5185m	920	672	678	638
Zinc	ppm	ASTM D5185m	104	435	296	264
Sulfur	ppm	ASTM D5185m	20179	18175	17009	16467
Visc @ 40°C	cSt	ASTM D445	333	169	193	203

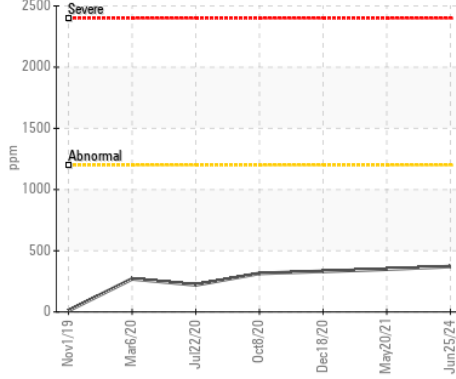
▲ Non-ferrous Metals



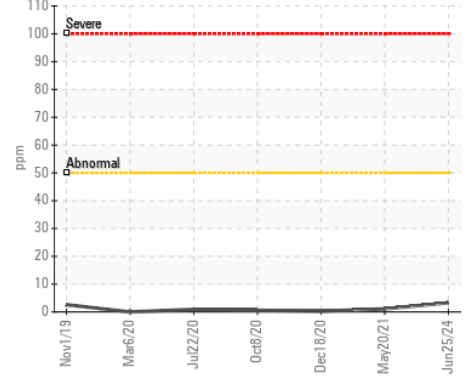
Viscosity @ 40°C



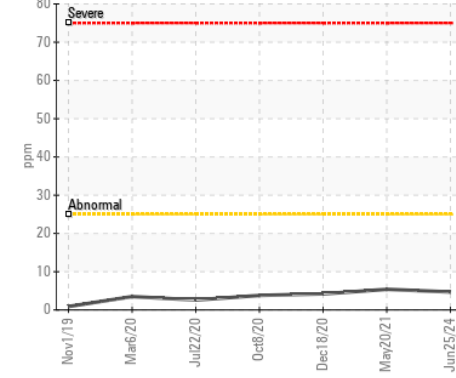
Iron (ppm)



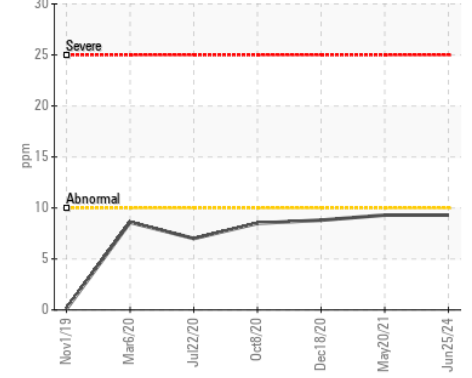
Lead (ppm)



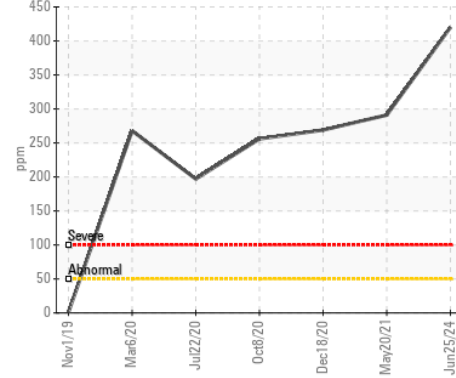
Aluminum (ppm)



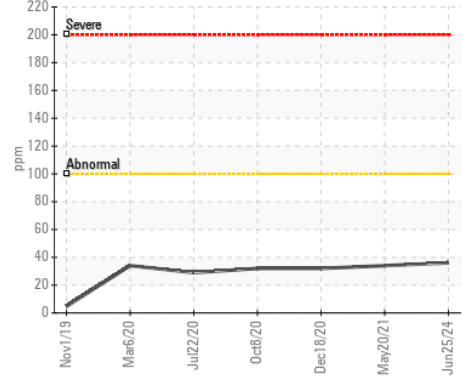
Chromium (ppm)



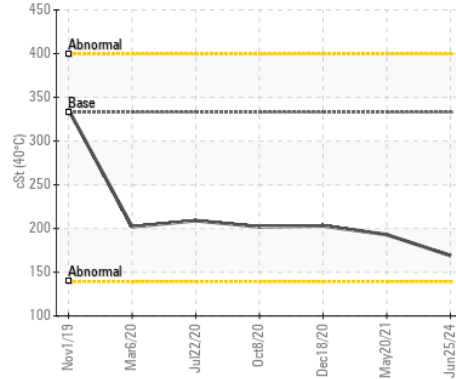
▲ Copper (ppm)



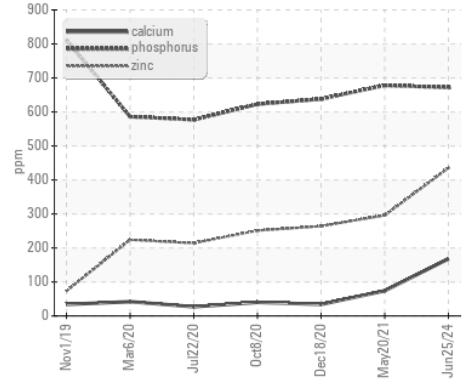
Silicon (ppm)



Viscosity @ 40°C



Additives



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : VCP439815
 Lab Number : 06223800
 Unique Number : 11101997
 Test Package : MOB 1

Received : 28 Jun 2024
 Tested : 01 Jul 2024
 Diagnosed : 01 Jul 2024 - Don Baldridge

TRADEMARK METALS RECYCLING - SUNSHINE
 13200 CAIRO LN
 OPA LOCKA, FL
 US 33054
 Contact: Service Manager

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)

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