CONST

ASCENDUM

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION

Area
Ascendum Machinery
Machine Id
VOLVO EC200EL 310063
Component
Swing Drive
Fluid
VOLVO PREMIUM GEAR OIL 85W-140 GL-5 (--- GAL)

RECOMMENDATION

We recommend an early resample to monitor this condition.

WEAR

A sharp increase in the iron level is noted. Gear wear is indicated.

CONTAMINATION

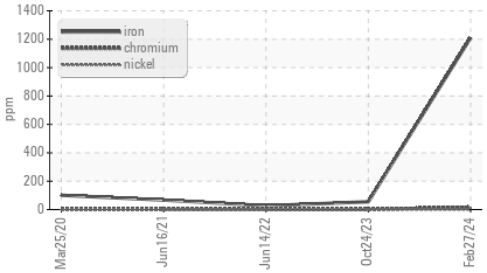
There is no indication of any contamination in the oil.

FLUID CONDITION

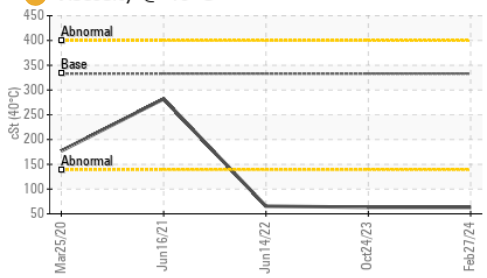
The oil viscosity is lower than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ASC0007641	ASC0005351	VCP0000573
Sample Date		Client Info		27 Feb 2024	24 Oct 2023	14 Jun 2022
Machine Age	hrs	Client Info		5427	5030	3293
Oil Age	hrs	Client Info		397	1737	1297
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Changed	Changed
Filter Changed		Client Info		Not Changd	N/A	N/A
Sample Status				ABNORMAL	ATTENTION	ATTENTION
Iron	ppm	ASTM D5185m	>1200	▲ 1210	55	27
Chromium	ppm	ASTM D5185m	>10	▲ 17	<1	<1
Nickel	ppm	ASTM D5185m	>10	<1	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	<1	0	<1
Lead	ppm	ASTM D5185m	>50	0	0	<1
Copper	ppm	ASTM D5185m	>50	15	5	4
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>100	8	4	3
Potassium	ppm	ASTM D5185m	>20	2	<1	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
Sodium	ppm	ASTM D5185m		1	2	1
Boron	ppm	ASTM D5185m	111	175	196	242
Barium	ppm	ASTM D5185m	0.0	1	0	0
Molybdenum	ppm	ASTM D5185m	0.9	5	3	4
Manganese	ppm	ASTM D5185m	0.0	14	1	<1
Magnesium	ppm	ASTM D5185m	39	3	0	5
Calcium	ppm	ASTM D5185m	93	23	0	24
Phosphorus	ppm	ASTM D5185m	920	2020	1644	2083
Zinc	ppm	ASTM D5185m	104	46	17	33
Sulfur	ppm	ASTM D5185m	20179	26867	23783	26781
Visc @ 40°C	cSt	ASTM D445	333	63.1	63.3	65.4

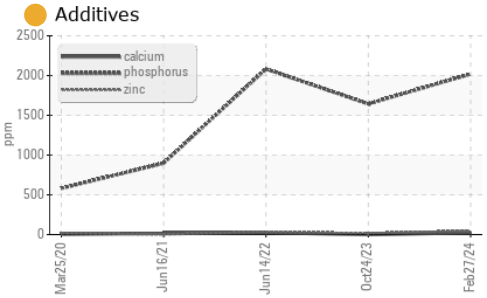
Ferrous Alloys



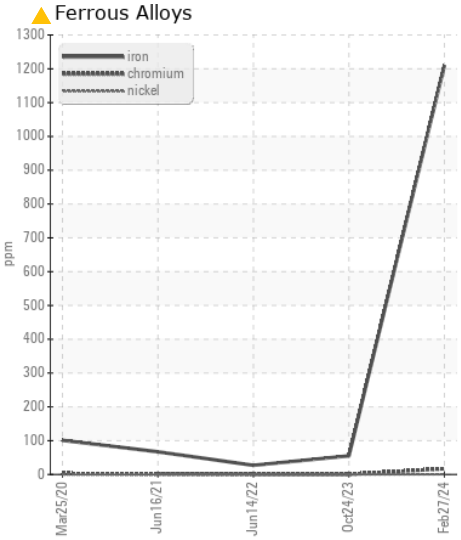
Viscosity @ 40°C



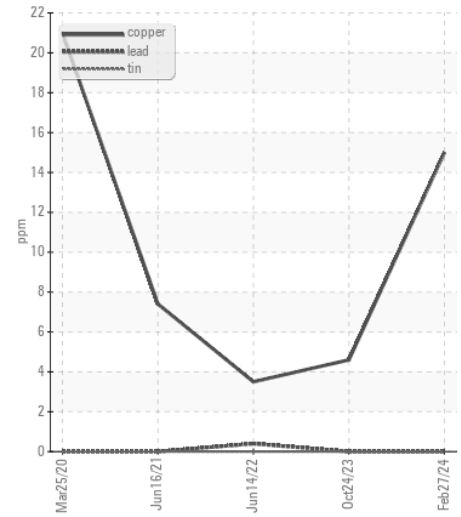
Additives



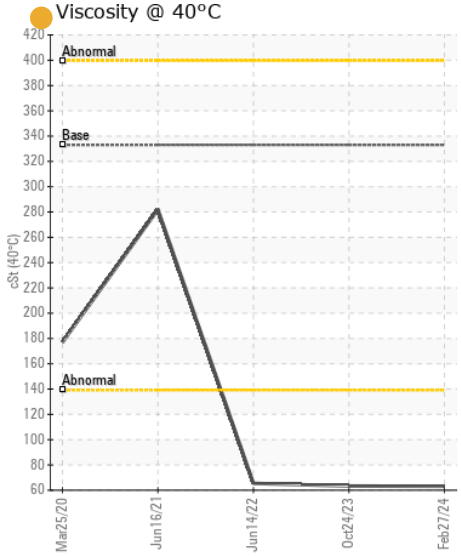
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ASC0007641
Lab Number : 06105627
Unique Number : 10903857
Test Package : CONST

Received : 29 Feb 2024
Tested : 02 Mar 2024
Diagnosed : 04 Mar 2024 - Don Baldridge

EGGER TIMBERPAK
1801 COTTONWOOD ST
CHARLOTTE, NC
US 28206
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)

T:
F: