



ASCENDUM

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

Ascendum Machinery/500 Hour CSA

Machine Id

VOLVO EC350E 2130 (S/N 350E314011)

Component

Swing Drive

Fluid

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

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ASC0011396	ASC0010406	ASC0006168
Sample Date		Client Info		11 Jun 2024	20 Mar 2024	23 Jan 2024
Machine Age	hrs	Client Info		4498	4003	3532
Oil Age	hrs	Client Info		498	1000	532
Filter Age	hrs	Client Info		0	0	532
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Filter Changed		Client Info		N/A	N/A	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>1200	86	83	61
Chromium	ppm	ASTM D5185m	>10	1	1	<1
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	3	2	2
Lead	ppm	ASTM D5185m	>50	<1	<1	0
Copper	ppm	ASTM D5185m	>50	9	6	4
Tin	ppm	ASTM D5185m	>10	<1	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
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.

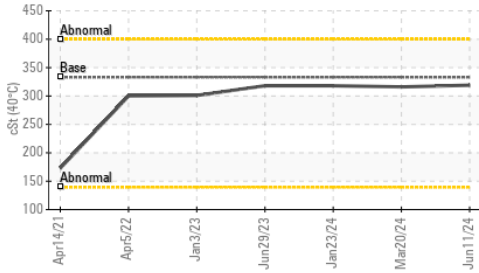
Silicon	ppm	ASTM D5185m	>100	5	7	4
Potassium	ppm	ASTM D5185m	>20	<1	<1	1
Water		WC Method	>0.25	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.25	NEG	NEG	NEG

FLUID CONDITION

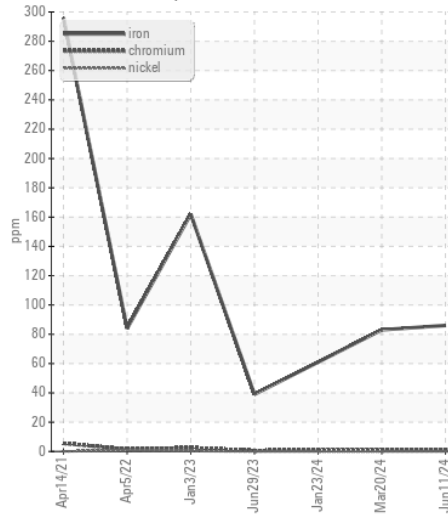
The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		0	0	0
Boron	ppm	ASTM D5185m	111	210	221	184
Barium	ppm	ASTM D5185m	0.0	<1	0	<1
Molybdenum	ppm	ASTM D5185m	0.9	<1	0	<1
Manganese	ppm	ASTM D5185m	0.0	1	<1	<1
Magnesium	ppm	ASTM D5185m	39	2	1	<1
Calcium	ppm	ASTM D5185m	93	81	58	33
Phosphorus	ppm	ASTM D5185m	920	961	918	1006
Zinc	ppm	ASTM D5185m	104	41	24	21
Sulfur	ppm	ASTM D5185m	20179	30735	25903	32846
Visc @ 40°C	cSt	ASTM D445	333	319	316	318

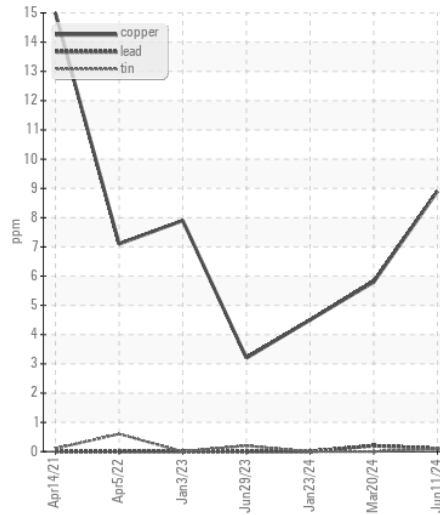
Viscosity @ 40°C



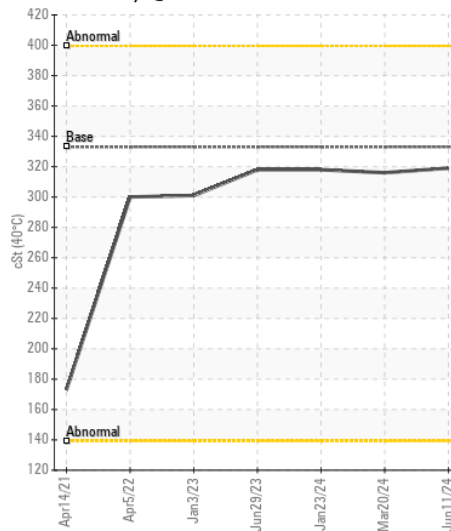
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ASC0011396
Lab Number : 06210572
Unique Number : 11083436
Test Package : CONST
Received : 14 Jun 2024
Tested : 17 Jun 2024
Diagnosed : 17 Jun 2024 - Wes Davis

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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)