



ASCENDUM

OIL ANALYSIS REPORT



Area
Ascendum Machinery/500 Hour CSA
 Machine Id
VOLVO EC350E 2130 (S/N 314011)
 Component
Swing Drive
 Fluid
VOLVO PREMIUM GEAR OIL 85W-140 GL-5 (--- GAL)

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ASC0006168	VCP418367	VCP0006117
Sample Date		Client Info		23 Jan 2024	29 Jun 2023	03 Jan 2023
Machine Age	hrs	Client Info		3532	2924	2041
Oil Age	hrs	Client Info		532	0	906
Filter Age	hrs	Client Info		532	0	0
Oil Changed		Client Info		Not Changed	Changed	Changed
Filter Changed		Client Info		Not Changed	Not Changed	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>1200	61	39	162
Chromium	ppm	ASTM D5185m	>10	<1	<1	2
Nickel	ppm	ASTM D5185m	>10	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	2	<1
Lead	ppm	ASTM D5185m	>50	0	0	0
Copper	ppm	ASTM D5185m	>50	4	3	8
Tin	ppm	ASTM D5185m	>10	0	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

There is no indication of any contamination in the oil.

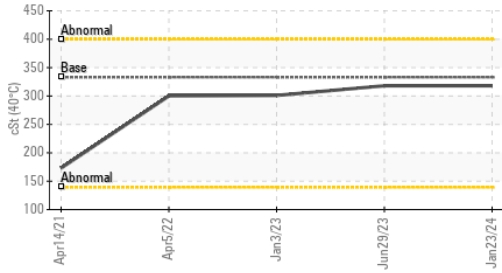
Silicon	ppm	ASTM D5185m	>100	4	4	5
Potassium	ppm	ASTM D5185m	>20	1	1	1
Water		WC Method	>0.25	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual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

FLUID CONDITION

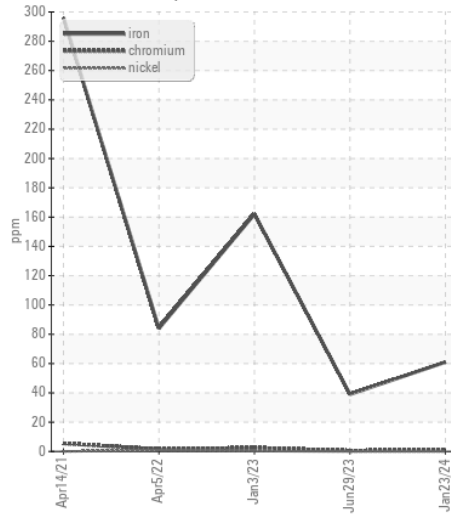
The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		0	<1	<1
Boron	ppm	ASTM D5185m	111	184	215	152
Barium	ppm	ASTM D5185m	0.0	<1	0	2
Molybdenum	ppm	ASTM D5185m	0.9	<1	0	<1
Manganese	ppm	ASTM D5185m	0.0	<1	<1	2
Magnesium	ppm	ASTM D5185m	39	<1	0	1
Calcium	ppm	ASTM D5185m	93	33	9	18
Phosphorus	ppm	ASTM D5185m	920	1006	1003	897
Zinc	ppm	ASTM D5185m	104	21	11	24
Sulfur	ppm	ASTM D5185m	20179	32846	35431	25775
Visc @ 40°C	cSt	ASTM D445	333	318	318	301

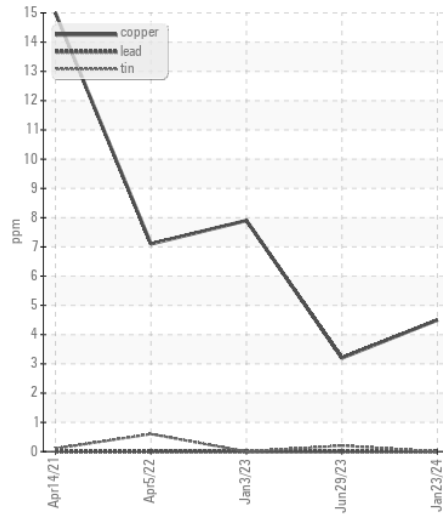
Viscosity @ 40°C



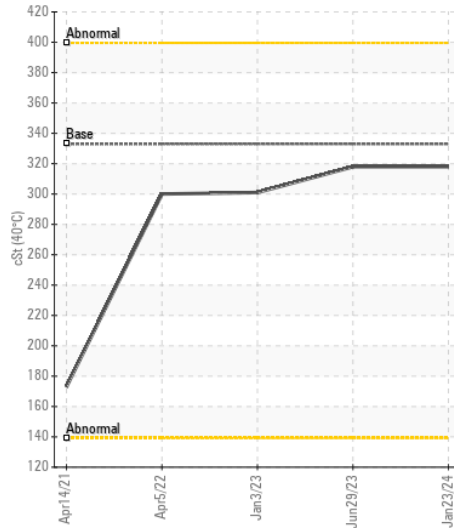
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ASC0006168 **Received** : 31 Jan 2024
Lab Number : 06076191 **Diagnosed** : 02 Feb 2024
Unique Number : 10858282 **Diagnostician** : Sean Felton
Test Package : CONST

G S MATERIALS INC
 PO BOX 1335
 BURLINGTON, NC
 US 27216

Contact: KAREN NEWPORT
 Gsmaterials@windstream.net
 T: (919)499-9322
 F: (919)499-2097

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)