



ASCENDUM

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

Ascendum Machinery

Machine Id

VOLVO SD115B R-04 (S/N 236316)

Component

Right Wheel Hub

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		ASC0009707	VCP0002106	---
Sample Date		Client Info		12 Jul 2024	01 Aug 2022	---
Machine Age	hrs	Client Info		3008	2011	---
Oil Age	hrs	Client Info		997	2011	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		None	N/A	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	156	345	---
Chromium	ppm	ASTM D5185m	>8	<1	3	---
Nickel	ppm	ASTM D5185m	>5	0	<1	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m		0	<1	---
Aluminum	ppm	ASTM D5185m	>5	0	1	---
Lead	ppm	ASTM D5185m	>5	0	0	---
Copper	ppm	ASTM D5185m	>50	0	<1	---
Tin	ppm	ASTM D5185m		0	<1	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	MODER	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

There is no indication of any contamination in the oil.

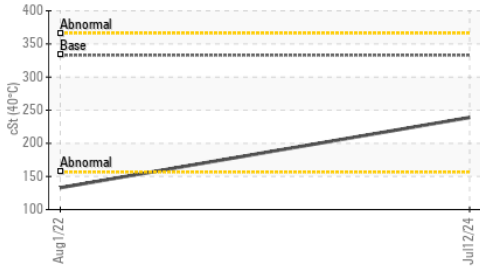
Silicon	ppm	ASTM D5185m	>25	10	18	---
Potassium	ppm	ASTM D5185m	>20	<1	0	---
Water		WC Method	>0.2	NEG	NEG	---
Silt	scalar	*Visual	NONE	LIGHT	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	---

FLUID CONDITION

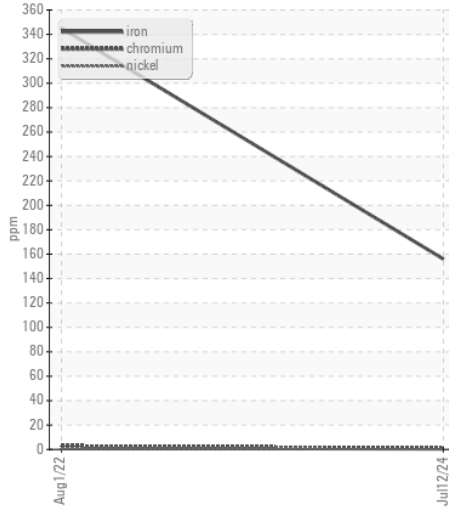
The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		5	2	---
Boron	ppm	ASTM D5185m	111	129	150	---
Barium	ppm	ASTM D5185m	0.0	0	2	---
Molybdenum	ppm	ASTM D5185m	0.9	0	<1	---
Manganese	ppm	ASTM D5185m	0.0	3	9	---
Magnesium	ppm	ASTM D5185m	39	0	0	---
Calcium	ppm	ASTM D5185m	93	52	145	---
Phosphorus	ppm	ASTM D5185m	920	961	952	---
Zinc	ppm	ASTM D5185m	104	47	167	---
Sulfur	ppm	ASTM D5185m	20179	27990	25056	---
Visc @ 40°C	cSt	ASTM D445	333	239	133	---

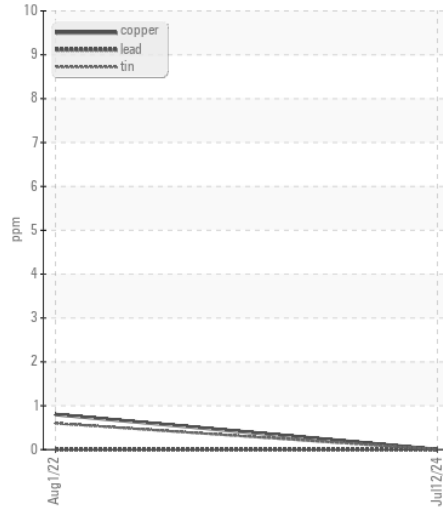
Viscosity @ 40°C



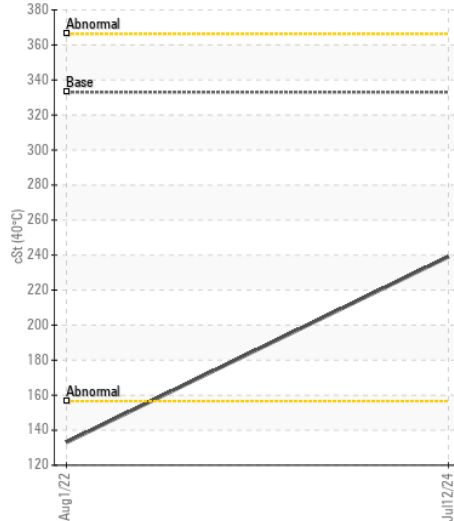
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ASC0009707
Lab Number : 062366116
Unique Number : 11125450
Test Package : CONST

Received : 15 Jul 2024
Tested : 16 Jul 2024
Diagnosed : 16 Jul 2024 - Wes Davis

CAROLINA EXCAVATING
 1036 BRANCHVIEW DR, SUITE 106
 CONCORD, NC
 US 28025
 Contact: KEVIN LADGERWOOD
 kevin@carlinaexcavation.com

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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F: