WEAR CONTAMINATION FLUID CONDITION

SEVERE SEVERE ATTENTION



Ascendum Machinery/500 Hour CSA VOLVO EC300E 2131 (S/N 314707)

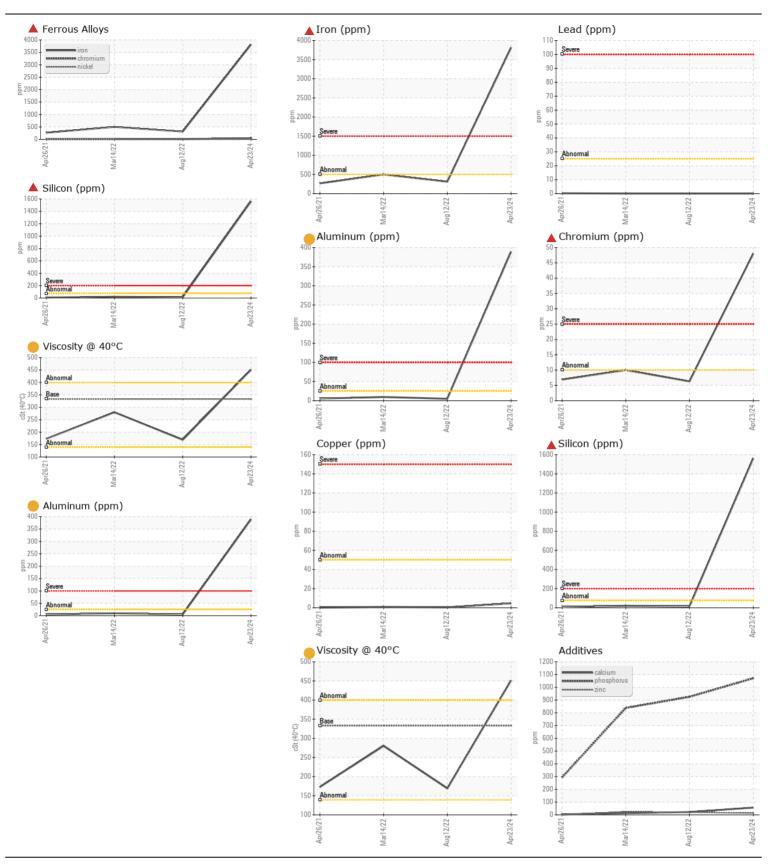
Rear Right Final Drive

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

VOLVO PREMIUM GEAR OIL 85W-140 GL-5 (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.	Sample Number		Client Info		ASC0001841	VCP0002006	VCP0000853
	Sample Date		Client Info		23 Apr 2024	12 Aug 2022	14 Mar 2022
	Machine Age	hrs	Client Info		3516	2627	2041
	Oil Age	hrs	Client Info		889	2627	2041
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		N/A	N/A	N/A
	Sample Status				SEVERE	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>500	▲ 3814	310	499
Gear wear is indicated.	Chromium	ppm	ASTM D5185m	>10	4 8	6	10
	Nickel	ppm	ASTM D5185m	>10	2	0	<1
	Titanium	ppm	ASTM D5185m		<u>^</u> 29	<1	<1
	Silver	ppm	ASTM D5185m		0	0	<1
	Aluminum	ppm	ASTM D5185m	>25	389	5	10
	Lead	ppm	ASTM D5185m	>25	0	0	0
	Copper	ppm	ASTM D5185m	>50	5	<1	<1
	Tin	ppm	ASTM D5185m	>10	<1	0	0
	Vanadium	ppm	ASTM D5185m		<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	MODER	MODER
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>75	1560	14	21
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina- silicate (coarse dirt) ingress. High amount of ingressed dirt has caused abrasive wear to the component.	Potassium	ppm	ASTM D5185m	>20	75	3	4
	Water		WC Method	>0.2	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	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		28	<1	1
The oil viscosity is higher than normal. The oil is no longer serviceable due to the presence of contaminants.	Boron	ppm	ASTM D5185m	111	186	123	88
	Barium	ppm	ASTM D5185m	0.0	2	1	0
	Molybdenum	ppm	ASTM D5185m	0.9	4	<1	1
	Manganese	ppm	ASTM D5185m	0.0	31	4	6
	Magnesium	ppm	ASTM D5185m	39	21	1	1
	Calcium	ppm	ASTM D5185m	93	57	22	14
	Phosphorus	ppm	ASTM D5185m	920	1070	925	838
	Zinc	ppm	ASTM D5185m	104	14	20	24
	Sulfur	ppm	ASTM D5185m	20179	35741	24410	23157
	Visc @ 40°C	cSt	ASTM D445	333	451	169	280

Report Id: TRIBUR [WUSCAR] 06160766 (Generated: 04/29/2024 10:58:14) Rev: 1

Submitted By: CLAYTON SMITH





Certificate L2367

Laboratory Sample No. Lab Number

: 06160766 Unique Number: 10996189 Test Package : MOBCE

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : ASC0001841 Received **Tested**

: 25 Apr 2024 : 26 Apr 2024 : 29 Apr 2024 - Don Baldridge Diagnosed

TRIANGLE GRADING AND PAVING INC

1521 Huffman Mill Rd BURLINGTON, NC US 27216

Contact: ADAM CORBETT

wacorbett@trianglegradingpaving.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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