WEAR
CONTAMINATION
FLUID CONDITION

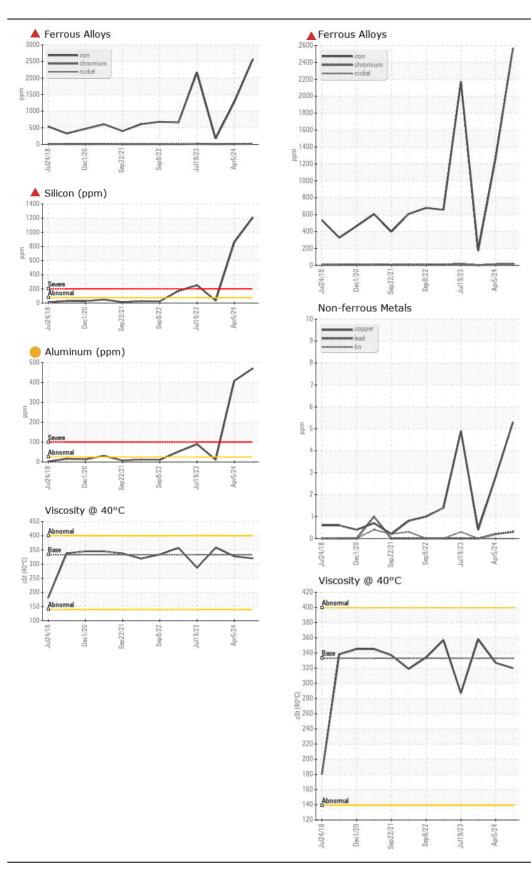
SEVERE SEVERE NORMAL

Blythe & Zachary JV CSA - 185 SC

VOLVO EC220E 3004954 (S/N 220E310634)

Front Right Final Drive

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. We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.	Sample Number		Client Info		ASC0003270	ASC0003365	VCP412387
	Sample Date		Client Info		15 Jul 2024	05 Apr 2024	03 Aug 2023
	Machine Age	hrs	Client Info		7496	7017	5771
	Oil Age	hrs	Client Info		479	7017	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Not Changd	Changed	Changed
	Filter Changed		Client Info		N/A	Changed	Not Change
	Sample Status				SEVERE	SEVERE	NORMAL
WEAR Gear wear is indicated.	Iron	ppm	ASTM D5185m	>500	<b>2568</b>	<u> </u>	174
	Chromium	ppm	ASTM D5185m	>10	<u> </u>	<u> </u>	1
	Nickel	ppm	ASTM D5185m	>10	3	2	<1
	Titanium	ppm	ASTM D5185m		26	18	<1
	Silver	ppm	ASTM D5185m		0	0	<1
	Aluminum	ppm	ASTM D5185m	>25	<u>471</u>	408	11
	Lead	ppm	ASTM D5185m	>25	<1	<1	0
	Copper	ppm	ASTM D5185m	>50	5	3	<1
	Tin	ppm	ASTM D5185m	>10	0	0	0
	Vanadium	ppm	ASTM D5185m		1	1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>75	<b>1212</b>	<b>857</b>	33
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina- silicate (coarse dirt) ingress.	Potassium	ppm	ASTM D5185m	>20	42	31	3
	Water		WC Method	>0.2	NEG	NEG	NEG
	Silt	scalar	*Visual	NONE	NONE	MODER	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		8	6	0
The oil is no longer serviceable due to the presence of contaminants.	Boron	ppm	ASTM D5185m	111	202	192	230
	Barium	ppm	ASTM D5185m	0.0	0	0	0
	Molybdenum	ppm	ASTM D5185m	0.9	2	1	<1
	Manganese	ppm	ASTM D5185m	0.0	13	7	<1
	Magnesium	ppm	ASTM D5185m	39	59	46	1
	Calcium	ppm	ASTM D5185m	93	100	154	4
	Phosphorus	ppm	ASTM D5185m	920	978	1085	1039
	Zinc	ppm	ASTM D5185m	104	15	44	2
	Sulfur	ppm	ASTM D5185m	20179	29543	32587	31039
	Visc @ 40°C	cSt	ASTM D445	333	320	327	358







Certificate L2367

Laboratory Sample No.

Lab Number : 06238231 Unique Number : 11127065

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : ASC0003270

**Tested** Diagnosed Test Package : CONST

**BLYTHE CONSTRUCTION INC** 2911 N GRAHAM STREET

CHARLOTTE, NC US 28231

F: (704)373-2960

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)

Received

: 16 Jul 2024

: 17 Jul 2024

: 18 Jul 2024 - Sean Felton

T: