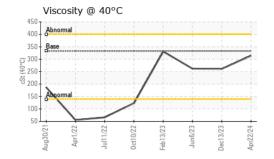
WEAR CONTAMINATION **FLUID CONDITION** **NORMAL NORMAL NORMAL**

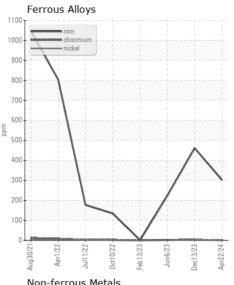


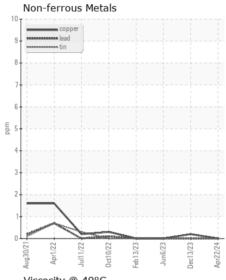
Ascendum Machinery VOLVO EC220E EX-4 (S/N 310878)
Component
Left Travel

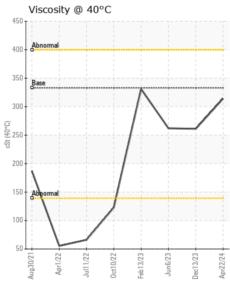
VOI VO PREMIUM GEAR OIL 85W-140 GL-5 (--- GAL)

W-140 GL-	<u> </u>	<u> </u>				
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ASC0007331	ASC0000972	ASC0000068
Sample Date		Client Info		22 Apr 2024	13 Dec 2023	06 Jun 2023
Machine Age	hrs	Client Info		5981	5519	5011
Oil Age	hrs	Client Info		462	508	500
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				NORMAL	ABNORMAL	NORMAL
		ACTM DE10E	1000	200	404	004
						224
						2
			>5			<1
						1
			100			3
						24
						0
						0
			>5			0
			NONE			0
						NONE
Yellow Metal	scalar	visuai	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>100	95	<u> </u>	60
Potassium	ppm	ASTM D5185m	>20	2	5	2
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	NORMI
Odor	scalar	*Visual	NORML	NORML	NORML	NORMI
Emulsified Water	scalar	*Visual	>0.25	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m		<1	0	1
Boron	ppm	ASTM D5185m	111	205	207	188
Barium	ppm	ASTM D5185m	0.0	0	0	0
		A OTHER DELOS	0.0		0	0
Molybdenum	ppm	ASTM D5185m		0	U	
Molybdenum Manganese	ppm	ASTM D5185m ASTM D5185m		2	2	2
			0.0			
Manganese	ppm	ASTM D5185m	0.0	2	2	2
Manganese Magnesium	ppm	ASTM D5185m ASTM D5185m	0.0 39 93	2 4	2	2
Manganese Magnesium Calcium	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	0.0 39 93 920	2 4 51	2 3 20	2 1 19
Manganese Magnesium Calcium Phosphorus	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0.0 39 93 920 104	2 4 51 1094	2 3 20 1011	2 1 19 953
	Test Sample Number Sample Date Machine Age Oil Age Filter Age Oil Changed Filter Changed Sample Status Iron Chromium Nickel Titanium Silver Aluminum Lead Copper Tin Vanadium White Metal Yellow Metal Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron	Test UOM Sample Number Sample Date Machine Age hrs Oil Age hrs Filter Age hrs Oil Changed Filter Changed Sample Status Iron ppm Chromium ppm Nickel ppm Titanium ppm Silver ppm Aluminum ppm Lead ppm Copper ppm Tin ppm Vanadium ppm White Metal scalar Yellow Metal scalar Silicon ppm Potassium ppm Water Silt scalar Debris scalar Sand/Dirt scalar Appearance scalar Codor scalar Emulsified Water Sodium ppm Boron ppm	Test UOM Method Sample Number Client Info Sample Date Client Info Machine Age hrs Client Info Oil Age hrs Client Info Oil Changed Client Info Filter Age hrs Client Info Oil Changed Client Info Filter Changed Client Info Sample Status Iron ppm ASTM D5185m Chromium ppm ASTM D5185m Nickel ppm ASTM D5185m Titanium ppm ASTM D5185m Aluminum ppm ASTM D5185m Copper ppm ASTM D5185m Copper ppm ASTM D5185m Vanadium ppm ASTM D5185m Vanadium ppm ASTM D5185m White Metal scalar *Visual Silicon ppm ASTM D5185m Water WC Method Silt scalar *Visual Debris scalar *Visual Sand/Dirt scalar *Visual Codor scalar *Visual Emulsified Water scalar *Visual Sodium ppm ASTM D5185m Boron ppm ASTM D5185m	Test UOM Method Limit/Abn Sample Number Client Info Sample Date Client Info Machine Age hrs Client Info Oil Age hrs Client Info Filter Age hrs Client Info Oil Changed Client Info Filter Changed Client Info Sample Status Iron ppm ASTM D5185m >1200 Chromium ppm ASTM D5185m >5 Titanium ppm ASTM D5185m >5 Titanium ppm ASTM D5185m >5 Titanium ppm ASTM D5185m >50 Copper ppm ASTM D5185m >50 Copper ppm ASTM D5185m >50 Copper ppm ASTM D5185m >5 Tin ppm ASTM D5185m >50 Copper ppm ASTM D5185m >50 Vanadium ppm ASTM D5185m >50 Vanadium ppm ASTM D5185m >6 Vanadium ppm ASTM D5185m >100 Potassium ppm ASTM D5185m >00 Vater Visual NONE Sand/Dirt scalar *Visual NONE Sand/Dirt scalar *Visual NONE Appearance scalar *Visual NONE Sand/Dirt scalar *Visual NONE Appearance scalar *Visual NORML Ddor scalar *Visual NORML Emulsified Water scalar *Visual NORML Sodium ppm ASTM D5185m Boron ppm ASTM D5185m	Test UOM Method Limit/Abn Current Sample Number Client Info ASC0007331 Sample Date Client Info 22 Apr 2024 Machine Age hrs Client Info 5981 Oil Age hrs Client Info 462 Filter Age hrs Client Info Changed Filter Changed Client Info N/A Sample Status NORMAL NORMAL Iron ppm ASTM D5185m >1200 Sample Status NORMAL NORMAL Iron ppm ASTM D5185m >1200 Sample Status NORMAL NORMAL Iron ppm ASTM D5185m >1200 Sample Status NORMAL NORMAL Iron ppm ASTM D5185m >100 Chromium ppm ASTM D5185m >100 Silver ppm ASTM D5185m >50 0 Chromium ppm ASTM D5185m >50 0	Test UOM Method Limit/Abn Current History1 Sample Number Client Info ASC0007331 ASC0000972 Sample Date Client Info 22 Apr 2024 13 Dec 2023 Machine Age hrs Client Info 5981 5519 Oil Age hrs Client Info 462 508 Filter Age hrs Client Info Changed Changed Gil Changed Client Info Changed Changed Filter Changed Client Info N/A N/A Sample Status NORMAL NORMAL ABNORMAL Iron ppm ASTM D5185m >1200 302 461 Chromium ppm ASTM D5185m >20 <1











Certificate L2367

Laboratory Sample No. Lab Number : 06160769

Test Package : CONST

: ASC0007331 Unique Number : 10996192

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

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

CAROLINA EXCAVATING 1036 BRANCHVIEW DR, SUITE 106

CONCORD, NC US 28025

Contact: KEVIN LADGERWOOD kevin@carlinaexcavation.com T:

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)

Report Id: CARCONVC [WUSCAR] 06160769 (Generated: 04/29/2024 11:02:14) Rev: 1

Submitted By: CLAYTON SMITH

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