WEAR CONTAMINATION FLUID CONDITION

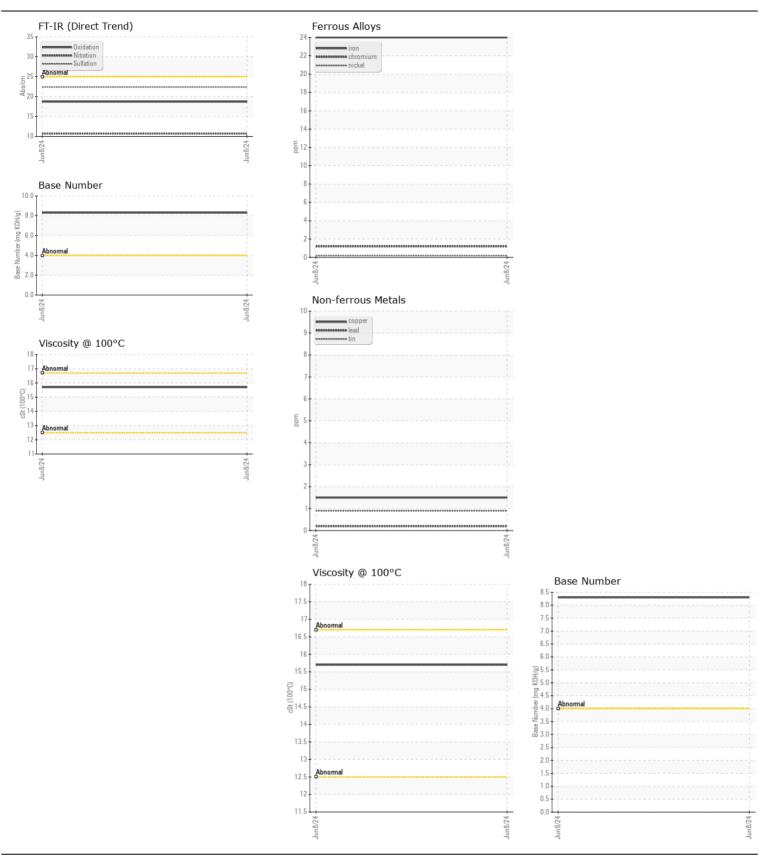
NORMAL NORMAL

Ascendum Machinery/500 Hour CSA VOLVO EC220E 310445

Diesel Engine

{not provided} (--- GAL)

Test	{not provided} (GAL)					.,		
Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. Sample Date Client Info Sample Date Client Info Sample Date Client Info Sample Date Client Info S552 S55	RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. Sample States	Resample at the next service interval to monitor. Please specify the						,	
Machine Age hrs Client Info 5552				Client Info		08 Jun 2024		
Col Age		Machine Age	hrs	Client Info		5552		
Filter Age		Oil Age	hrs	Client Info		5552		
Filter Changed Client Info Changed NORMAL		_	hrs	Client Info		0		
Normal N		Oil Changed		Client Info		Changed		
Iron		Filter Changed		Client Info		Changed		
Metal levels are typical for a components first oil change. Chromium ppm ASTM 05185m c10 c1		Sample Status				NORMAL		
Metal levels are typical for a components first oil change. Chromium ppm ASTM 05185m c10 c1	WEAR							
Metal levels are typical for a components first oil change. Nickel ppm ASTM 05165m 20 -1	WEAR							
Titanium ppm ASTM DSISSm -1	Metal levels are typical for a components first oil change.							
Silver					>10			
Aluminum ppm ASTM D5185m >20 <1			ppm					
Lead ppm ASTM D5185m >20 <1 Copper ppm ASTM D5185m >15 2 Vanadium ppm ASTM D5185m >15 2 Vanadium ppm ASTM D5185m >10 Valued NONE NONE Valued None NONE NONE Valued None None None Valued None Non								
Copper			ppm					
Time								
Vanadium ppm ASTM D5185m NONE NONE								
White Metal Scalar "Visual NONE NO					>10			
Silicon						-		
Silicon ppm ASTM D5185m >20 7								
Potassium ppm ASTM D5185m >20 2		Yellow Metal	scalar	*Visual	NONE	NONE		
Potassium ppm ASTM D5185m >20 2	CONTAMINATION	Silicon	nnm	ASTM D5185m	>20	7		
There is no indication of any contamination in the oil. Fuel WC Method >0.0 <1.0	SSITTAMINATION							
Water WC Method So.1 NEG So.2 NE	There is no indication of any contamination in the oil.		le le · · ·					
Glycol								
Soot %								
Nitration			%	*ASTM D7844	>3	0.8		
Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE Sand/Dirt scalar *Visual NORML		Nitration						
Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE Sand/Dirt scalar *Visual NORML		Sulfation	Abs/.1mm	*ASTM D7415	>30	22.4		
Sand/Dirt Scalar *Visual NONE NONE Appearance Scalar *Visual NORML		Silt				NONE		
Appearance		Debris	scalar	*Visual	NONE	NONE		
Codor Scalar *Visual NORML NOR		Sand/Dirt	scalar	*Visual	NONE	NONE		
Emulsified Water scalar *Visual >0.1 NEG		Appearance	scalar	*Visual	NORML	NORML		
Sodium ppm ASTM D5185m 27		Odor	scalar	*Visual	NORML	NORML		
Boron ppm ASTM D5185m 27 Barium ppm ASTM D5185m 0 Molybdenum ppm ASTM D5185m 72 Manganese ppm ASTM D5185m 72 Magnesium ppm ASTM D5185m 810 Calcium ppm ASTM D5185m 1319 Phosphorus ppm ASTM D5185m 956 Zinc ppm ASTM D5185m 1293 Sulfur ppm ASTM D5185m 3209 Oxidation Abs/.tmm *ASTM D7414 >25 18.7 Base Number (BN) mg KOH/g ASTM D2896 8.3		Emulsified Water	scalar	*Visual	>0.1	NEG		
Boron ppm ASTM D5185m 27 Barium ppm ASTM D5185m 0 Molybdenum ppm ASTM D5185m 72 Manganese ppm ASTM D5185m 72 Magnesium ppm ASTM D5185m 810 Calcium ppm ASTM D5185m 1319 Phosphorus ppm ASTM D5185m 956 Zinc ppm ASTM D5185m 1293 Sulfur ppm ASTM D5185m 3209 Oxidation Abs/.tmm *ASTM D7414 >25 18.7 Base Number (BN) mg KOH/g ASTM D2896 8.3	ELUID CONDITION	O a alla ana		AOTM DE405				
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service. Barium ppm ASTM D5185m 72 Manganese ppm ASTM D5185m 72 Manganese ppm ASTM D5185m 810 Calcium ppm ASTM D5185m 1319 Phosphorus ppm ASTM D5185m 956 Zinc ppm ASTM D5185m 1293 Sulfur ppm ASTM D5185m 3209 Oxidation Abs/.tmm *ASTM D7414 >25 18.7 Base Number (BN) mg KOH/g ASTM D2896 8.3	FLUID CONDITION							
Molybdenum ppm ASTM D5185m 72 Manganese ppm ASTM D5185m <1 Magnesium ppm ASTM D5185m 810 Calcium ppm ASTM D5185m 1319 Phosphorus ppm ASTM D5185m 956 Zinc ppm ASTM D5185m 1293 Sulfur ppm ASTM D5185m 3209 Oxidation Abs/.tmm *ASTM D7414 >25 18.7 Base Number (BN) mg KOH/g ASTM D2896 8.3	The BN result indicates that there is suitable alkalinity remaining in the							
Manganese ppm ASTM D5185m <1	oil. The condition of the oil is suitable for further service.							
Magnesium ppm ASTM D5185m 810 Calcium ppm ASTM D5185m 1319 Phosphorus ppm ASTM D5185m 956 Zinc ppm ASTM D5185m 1293 Sulfur ppm ASTM D5185m 3209 Oxidation Abs/.1mm *ASTM D7414 >25 18.7 Base Number (BN) mg KOH/g ASTM D2896 8.3		-						
Calcium ppm ASTM D5185m 1319 Phosphorus ppm ASTM D5185m 956 Zinc ppm ASTM D5185m 1293 Sulfur ppm ASTM D5185m 3209 Oxidation Abs/.1mm *ASTM D7414 >25 18.7 Base Number (BN) mg KOH/g ASTM D2896 8.3								
Phosphorus ppm ASTM D5185m 956 Zinc ppm ASTM D5185m 1293 Sulfur ppm ASTM D5185m 3209 Oxidation Abs/.1mm *ASTM D7414 >25 18.7 Base Number (BN) mg KOH/g ASTM D2896 8.3								
Zinc ppm ASTM D5185m 1293 Sulfur ppm ASTM D5185m 3209 Oxidation Abs/.1mm *ASTM D7414 >25 18.7 Base Number (BN) mg KOH/g ASTM D2896 8.3								
Sulfur ppm ASTM D5185m 3209 Oxidation Abs/.1mm *ASTM D7414 >25 18.7 Base Number (BN) mg KOH/g ASTM D2896 8.3		·						
Oxidation Abs/.1mm *ASTM D7414 >25 18.7 Base Number (BN) mg KOH/g ASTM D2896 8.3								
Base Number (BN) mg KOH/g ASTM D2896 8.3					>25			
					7 20			
1.05 @ 1.05 @ 1.05								
		1.55 @ 100 0						







Report Id: TRIBUR [WUSCAR] 06209884 (Generated: 06/17/2024 06:48:14) Rev: 1

Laboratory Sample No.

: ASC0009534 Lab Number : 06209884 Unique Number : 11082748

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 14 Jun 2024 **Tested** Diagnosed

: 17 Jun 2024 : 17 Jun 2024 - Wes Davis

TRIANGLE GRADING AND PAVING INC 1521 Huffman Mill Rd

BURLINGTON, NC US 27216 Contact: KAREN HILLIARD

Test Package : CONST (Additional Tests: TBN) Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. khilliard@trianglegradingpaving.com

T: (336)584-1745 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (336)584-0145