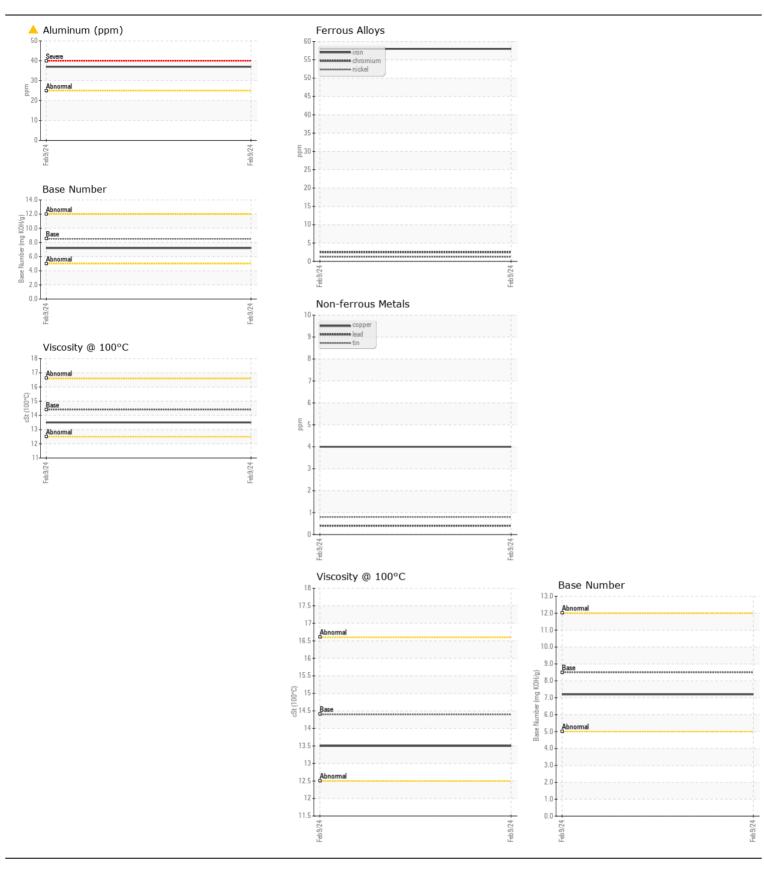
WEAR CONTAMINATION FLUID CONDITION **ABNORMAL NORMAL NORMAL**

VOLVO SD115 HIGH POWER SD115 HIGH POWER (S/N NOT GIVEN)

Component Diesel Engine

DIESEL ENGINE OIL SAE 15W40 (--- GAL)

Sample Number Client Info Sample noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. Sample Date Client Info Sample Date Sample Date Client Info Sample Number Client Info Sample Number Sample Date Sample Date Sample Date Sample Number Client Info Sample Status Sample Status								DIESEL ENGINE OIL SAE 15W40 (GAL)
Sample Number Client Info Mccorrective action is recommended at this time. Resample at the next service interval to monitor. Sample Date Machine Age hrs Client Info S83	History2	History1	Current	Limit/Abn	Method	UOM	Test	RECOMMENDATION
Sample Date Client Info Content Info Changed Client Info Changed Changed Client Info Changed C								TEOOMINE NOATION
Machine Age hrs Client Info S83 S84		1	1					
Cit Age						hrs		•
Filter Age			1				•	service interval to monitor.
Oil Changed Cilient Info Changed Chan								
Filter Changed Sample Status							_	
VEAR							-	
Iron		1	-					
Chromium ppm ASTM D5185m >20 2								
Nickel ppm ASTM D5185m 22 1			58	>100	ASTM D5185m	ppm	Iron	WEAR
Titanium ppm			2	>20	ASTM D5185m	ppm	Chromium	The lead level is also sweet All attentions are at the sweet and attentions.
Silver			1	>2	ASTM D5185m	ppm	Nickel	The lead level is aphormal. All other component wear rates are normal.
Aluminum ppm ASTM D5185m >25 A 37			0		ASTM D5185m	ppm	Titanium	
Lead			0	>2	ASTM D5185m	ppm	Silver	
Copper			△ 37	>25	ASTM D5185m	ppm	Aluminum	
Tin			<1	>40	ASTM D5185m	ppm	Lead	
Vanadium			4	>330	ASTM D5185m	ppm	Copper	
White Metal Yellow Metal Scalar *Visual NONE NONE NONE NONE Yellow Metal Scalar *Visual NONE NONE NONE NONE NONE NONE NONE NON			<1	>15	ASTM D5185m	ppm	Tin	
Vellow Metal scalar *Visual NONE NONE			0		ASTM D5185m	ppm	Vanadium	
Silicon ppm ASTM D5185m >25 14			NONE	NONE	*Visual	scalar	White Metal	
Potassium ppm ASTM D5185m >20 2			NONE	NONE	*Visual	scalar	Yellow Metal	
Potassium ppm ASTM D5185m >20 2								
Fuel WC Method >0.2 NEG						ppm	Silicon	CONTAMINATION
Water WC Method >0.2 NEG			2	>20	ASTM D5185m	ppm		There is no indication of any contamination in the oil
Glycol							Fuel	There is no indication of any contamination in the oil.
Soot %			NEG	>0.2	WC Method		Water	
Nitration			NEG		WC Method		Glycol	
Sulfation Abs/.tmm *ASTM D7415 >30 22.1 Silt scalar *Visual NONE NONE NONE Debris scalar *Visual NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE Sand/Dirt scalar *Visual NORM NORM NORM Appearance scalar *Visual NORM NORM NORM Codor scalar *Visual NORM NORM NORM Emulsified Water scalar *Visual NORM NORM Emulsified Water scalar *Visual NORM NORM Emulsified Water scalar *Visual NORM NORM NORM NORM NORM Emulsified Water scalar *Visual NORM NORM NORM NORM NORM Emulsified Water scalar *Visual NORM NORM NORM NORM NORM Emulsified Water scalar *Visual NORM NORM NORM NORM NORM NORM NORM NORM NORM NORM NORM NORM NORM NORM NORM Emulsified Water scalar *Visual NORM NORM NORM NORM NORM NORM NORM NORM NORM NORM NORM NORM Emulsified Water scalar *Visual NORM NORM NORM NORM Emulsified Water scalar *Visual NORM NO			0.7	>3	*ASTM D7844	%	Soot %	
Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE Appearance scalar *Visual NORML N			9.4	>20	*ASTM D7624	Abs/cm	Nitration	
Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NONE NONE Sand/Dirt scalar *Visual NONE NONE Sand/Dirt Scalar *Visual NORML NORML Scalar *Visual Scalar			22.1	>30	*ASTM D7415	Abs/.1mm	Sulfation	
Sand/Dirt scalar *Visual NONE NORML NORML				NONE	*Visual	scalar		
Appearance Scalar *Visual NORML NORML Odor Scalar *Visual NORML NORML NORML Emulsified Water Scalar *Visual NORML NORM			NONE	NONE	*Visual	scalar	Debris	
Calcium Calc			NONE			scalar	Sand/Dirt	
Emulsified Water scalar *Visual >0.2 NEG			NORML	NORML	*Visual	scalar	Appearance	
FLUID CONDITION The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service. Sodium ppm ASTM D5185m >158 1 Boron ppm ASTM D5185m 250 278 Barium ppm ASTM D5185m 10 0 Molybdenum ppm ASTM D5185m 100 87 Magnesium ppm ASTM D5185m 1 Magnesium ppm ASTM D5185m 450 419 Calcium ppm ASTM D5185m 3000 1428			NORML	NORML	*Visual	scalar	Odor	
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service. Boron ppm ASTM D5185m 250 278 Barium ppm ASTM D5185m 10 0 Molybdenum ppm ASTM D5185m 100 87 Manganese ppm ASTM D5185m 1 1 Magnesium ppm ASTM D5185m 450 419 Calcium ppm ASTM D5185m 3000 1428			NEG	>0.2	*Visual	scalar	Emulsified Water	
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service. Boron ppm ASTM D5185m 250 278 Barium ppm ASTM D5185m 10 0 Molybdenum ppm ASTM D5185m 100 87 Manganese ppm ASTM D5185m 100 87 Magnesium ppm ASTM D5185m 1 Calcium ppm ASTM D5185m 3000 1428			4	150	ACTM DE10E		م الم	ELUID CONDITION
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service. Barium ppm ASTM D5185m 10 0 Molybdenum ppm ASTM D5185m 100 87 Manganese ppm ASTM D5185m 10 0 47 Magnesium ppm ASTM D5185m 450 419 Calcium ppm ASTM D5185m 3000 1428								FLUID CUNDITION
oil. The condition of the oil is acceptable for the time in service. Molybdenum ppm ASTM D5185m 100 87								The BN result indicates that there is suitable alkalinity remaining in the
Manganese ppm ASTM D5185m 1 Magnesium ppm ASTM D5185m 450 419 Calcium ppm ASTM D5185m 3000 1428								,
Magnesium ppm ASTM D5185m 450 419 Calcium ppm ASTM D5185m 3000 1428		1		100			•	
Calcium ppm ASTM D5185m 3000 1428				450			-	
		1						
			918			ppm	Phosphorus	
Zinc ppm ASTM D5185m 1350 1257								
Sulfur ppm ASTM D5185m 4250 3177		1	1					
Oxidation								
Base Number (BN) mg KOH/g		1	1					
Visc @ 100°C cSt ASTM D445 14.4 13.5		/	13.5	14.4	ASTM D445	CST	visc @ 100°C	







Laboratory Sample No.

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

: ML0000669 Lab Number : 06089243

Unique Number: 10876688

Test Package : CONST (Additional Tests: TBN)

Tested Diagnosed

Received

: 15 Feb 2024 : 16 Feb 2024 - Sean Felton

: 14 Feb 2024

1345 MOUNTAIN ROAD GLEN ALLEN, VA

MCCLUNG-LOGAN EQUIPMENT CO - RICHMOND

Contact: KYLE RATLIFFE KRATLIFFE@MCCLUNG-LOGAN.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) F: (804)266-1611

Report Id: VOLVO8882 [WUSCAR] 06089243 (Generated: 02/16/2024 12:40:26) Rev: 1

Contact/Location: KYLE RATLIFFE - VOLVO8882

US 23060

T: