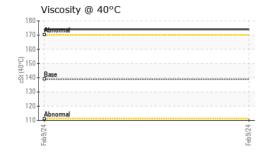
WEAR CONTAMINATION FLUID CONDITION **NORMAL NORMAL NORMAL**

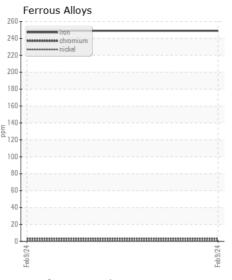


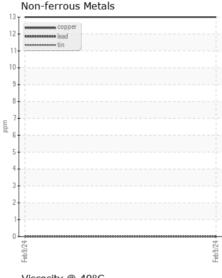
[W05004053] **VOLVO EC750 314245**

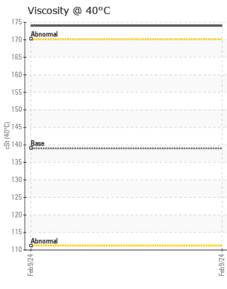
Component Center Left Swing Drive

Sample at the next service interval to monitor. (Customer Sample Comment: W05004053 1000 hour service) Sample Date Client Info 09 Feb 2024	VOLVO PREMIUM GEAR OIL 8	30W-90 GL-5	(2 G/	AL)		.,		
Sample Date Client Info 09 Feb 2024	RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Date Client Into 0 Feb 2024	Resample at the next service interval to monitor. (Customer Sample Comment: W05004053 1000 hour service)	Sample Number		Client Info		ML0000426		
Oil Age		Sample Date		Client Info		09 Feb 2024		
Filter Age		Machine Age	hrs	Client Info		1022		
Oil Changed Client Info Changed Client Info N/A		Oil Age	hrs	Client Info		1000		
Filter Changed Sample Status		Filter Age	hrs	Client Info		0		
NORMAL		Oil Changed		Client Info		Changed		
Iron		Filter Changed		Client Info		N/A		
Chromium ppm ASTM D8185m >10 3 Nickel ppm ASTM D8185m >10 <1 Titanium ppm ASTM D8185m >10 <1 Silver ppm ASTM D8185m >50 0 Aluminum ppm ASTM D8185m >50 0 Aluminum ppm ASTM D8185m >50 0 Astm D8185m >50 0 ASTM D8185m >50 13 Vanadium ppm ASTM D8185m >50 13 Vanadium ppm ASTM D8185m >10 0 Valve Valv		Sample Status				NORMAL		
Nickel ppm ASTM D5185m >10 <1	WEAR	Iron	ppm	ASTM D5185m	>1200	249		
Nickel ppm ASTM DS185m >10 <1 Titanium ppm ASTM DS185m >10 0 Silver ppm ASTM DS185m >25 1 Aluminum ppm ASTM DS185m >50 0 Lead ppm ASTM DS185m >50 0 Copper ppm ASTM DS185m >50 0 Vanadium ppm ASTM DS185m >10 0 Value Visual NONE NONE Value Visual NONE NONE Vater Visual NONE NONE Sitt scalar Visual NONE NONE Sitt scalar Visual NONE NONE Debris scalar Visual NONE NONE Appearance scalar Visual NONE NONE Appearance scalar Visual NONE NONE Appearance scalar Visual NORML NORML NORML Appearance scalar Visual NORML NORML ASTM DS185m 0.0 <1 Molybdenum ppm ASTM DS185m 0.0 <1 Manganese ppm ASTM DS185m 0.7 334 Zinc ppm ASTM DS185m 46 18 Sulfur ppm ASTM DS185m 0.3 0 Sulfur ppm ASTM DS185m 0.3 0 ASTM DS185m 0.0 4 ASTM DS185m 0.0 4 ASTM DS185m 0.0 4 ASTM DS185m 0.0 4 AST	All component wear rates are normal.	Chromium		ASTM D5185m	>10	3		
Titanium		Nickel		ASTM D5185m	>10	<1		
Aluminum ppm ASTM 05185m >25 1		Titanium		ASTM D5185m		0		
Aluminum ppm ASTM 05185m >25 1		Silver				0		
Copper		Aluminum	ppm	ASTM D5185m	>25	1		
Tin		Lead	ppm	ASTM D5185m	>50	0		
Vanadium ppm ASTM D5185m 0 White Metal scalar *Visual NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE		Copper	ppm	ASTM D5185m	>50	13		
White Metal Scalar *Visual NONE NONE Yellow Metal Scalar *Visual NONE NONE Yellow Metal Scalar *Visual NONE NONE NONE NONE NONE NONE NONE NONE NEG NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NO		Tin	ppm	ASTM D5185m	>10	0		
Yellow Metal scalar "Visual NONE NONE		Vanadium	ppm	ASTM D5185m		0		
Silicon ppm ASTM D5185m >100 10		White Metal	scalar	*Visual	NONE	NONE		
Potassium ppm ASTM D5185m >20 0		Yellow Metal	scalar	*Visual	NONE	NONE		
Potassium ppm ASTM D5185m >20 0	CONTAMINATION	Silicon	nnm	ΔSTM D5185m	>100	10		
Water WC Method >0.25 NEG	There is no indication of any contamination in the oil.							
Sitt Scalar *Visual NONE NONE 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 NORML *Visual N			ррпп					
Debris Scalar *Visual NONE NONE			scalar					
Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORML NORML NORML NORML Odor scalar *Visual NORML NOR								
Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NO		Sand/Dirt						
Emulsified Water scalar *Visual >0.25 NEG		Appearance		*Visual				
Sodium ppm ASTM D5185m 3		Odor	scalar	*Visual	NORML	NORML		
Boron ppm ASTM D5185m 379 0 Barium ppm ASTM D5185m 0.0 <1 Molybdenum ppm ASTM D5185m 0.8 0 Manganese ppm ASTM D5185m 0.0 4 Magnesium ppm ASTM D5185m 31 <1 Calcium ppm ASTM D5185m 38 7 Phosphorus ppm ASTM D5185m 1077 334 Zinc ppm ASTM D5185m 46 18 Sulfur ppm ASTM D5185m 23526 15562		Emulsified Water	scalar	*Visual	>0.25	NEG		
Boron ppm ASTM D5185m 379 0 Barium ppm ASTM D5185m 0.0 <1 Molybdenum ppm ASTM D5185m 0.8 0 Manganese ppm ASTM D5185m 0.0 4 Magnesium ppm ASTM D5185m 31 <1 Calcium ppm ASTM D5185m 38 7 Phosphorus ppm ASTM D5185m 1077 334 Zinc ppm ASTM D5185m 46 18 Sulfur ppm ASTM D5185m 23526 15562	FI LIID CONDITION	Sodium	nnm	ASTM D5185m		3		
Barium ppm ASTM D5185m 0.0 <1 Molybdenum ppm ASTM D5185m 0.8 0 Manganese ppm ASTM D5185m 0.0 4 Magnesium ppm ASTM D5185m 31 <1 Calcium ppm ASTM D5185m 38 7 Phosphorus ppm ASTM D5185m 1077 334 Zinc ppm ASTM D5185m 46 18 Sulfur ppm ASTM D5185m 23526 15562					379			
Manganese ppm ASTM D5185m 0.0 4 Magnesium ppm ASTM D5185m 31 <1	The condition of the oil is acceptable for the time in service.							
Magnesium ppm ASTM D5185m 31 <1		Molybdenum	ppm	ASTM D5185m	0.8	0		
Calcium ppm ASTM D5185m 38 7 Phosphorus ppm ASTM D5185m 1077 334 Zinc ppm ASTM D5185m 46 18 Sulfur ppm ASTM D5185m 23526 15562						4		
Phosphorus ppm ASTM D5185m 1077 334 Zinc ppm ASTM D5185m 46 18 Sulfur ppm ASTM D5185m 23526 15562		Magnesium	ppm	ASTM D5185m	31	<1		
Zinc ppm ASTM D5185m 46 18 Sulfur ppm ASTM D5185m 23526 15562		Calcium	ppm	ASTM D5185m	38	7		
Sulfur ppm ASTM D5185m 23526 15562		Phosphorus	ppm	ASTM D5185m	1077	334		
		Zinc	ppm	ASTM D5185m	46	18		
Visc @ 40°C cSt ASTM D445 139 (174)		Sulfur	ppm	ASTM D5185m	23526	15562		
		Visc @ 40°C	cSt	ASTM D445	139	174		











Certificate L2367

Laboratory Sample No.

Lab Number : 06088398 Unique Number : 10875843

Test Package : CONST

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : ML0000426 Received **Tested**

: 13 Feb 2024 Diagnosed

: 14 Feb 2024

: 15 Feb 2024 - Sean Felton

MCCLUNG-LOGAN EQUIPMENT CO - MANASSAS 8450 QUARRY ROAD MANASSAS, VA US 20110

Contact: DARRELL ANDES dandes@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: (703)393-7844

Report Id: VOLVO0002 [WUSCAR] 06088398 (Generated: 02/15/2024 12:17:39) Rev: 1

Submitted By: DARRELL ANDES