

WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL



OCEAN CONTRACTORS [8000392193] Machine Id VOLVO ECR145E 316829

Swing Drive

Sample Number Client Info VCP394163	VOLVO PREMIUM GEAR OIL 8	80W-90 GL-5	(G	AL)		.,		
Resample at the next service interval to monitor. Sample Date Client Info 1077 Oil Age hrs Client Info 1077 Filter Age hrs Client Info 0 0 Filter Changed	RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.	Sample Number		Client Info		VCP394163		
Oil Age		Sample Date		Client Info		21 Feb 2024		
Filter Age		Machine Age	hrs	Client Info		1077		
Oil Changed Cilent Info Changed Cilent Info Sample Status Changed Cilent Info Sample Status NORMAL Color Changed Cilent Info Sample Status NORMAL Color Changed Ch		Oil Age	hrs	Client Info		1077		
Filter Changed Client Info No Change NORMAL		Filter Age	hrs	Client Info		0		
Note		Oil Changed		Client Info		Changed		
Value Valu		Filter Changed		Client Info		Not Changd		
Chromium ppm ASTM D6185 m >10 <1		Sample Status				NORMAL		
Nickel ppm ASTU 05185 m >10 <1 Titanium ppm ASTU 05185 m 0 0 Aluminum ppm ASTU 05185 m >50 1 Aluminum ppm ASTU 05185 m >50 1 Copper ppm ASTU 05185 m >50 58 Copper ppm ASTU 05185 m >50 58 Vanadium ppm ASTU 05185 m >10 0 Valuer Visual* NONE NONE Appearance Scalar Visual* NONE NONE Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service. Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service. Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service. Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service. Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service. Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service. Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service. Additive levels in	WEAR	Iron	ppm	ASTM D5185(m)	>1200	46		
Nickel ppm ASTN D5858m >10 <1 Titanium ppm ASTN D5858m > 0 Aluminum ppm ASTN D5858m > 25 3 Aluminum ppm ASTN D5858m > 25 3 Aluminum ppm ASTN D5858m > 50 1 Copper ppm ASTN D5858m > 50 1 Copper ppm ASTN D5858m > 10 0 Tin ppm ASTN D5858m > 10 0 Vanadium ppm ASTN D5858m > 10 0 Value Visual NONE NONE Value Visual NONE NONE Vater Visual NONE NONE Vater Visual NONE NONE Debris scalar Visual NONE NONE Debris scalar Visual NONE NONE Appearance scalar Visual NONE NONE Appearance scalar Visual NORML NORML Appearance scalar Visual NORML NORML Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service. Magnaesium ppm ASTN D585m 0.8 0 Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service. Magnaese ppm ASTN D585m 0.0 2 Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service. Astn D685m 0.0 2 .	Metal levels are typical for a components first oil change.	Chromium	ppm	ASTM D5185(m)	>10	<1		
Silver ppm ASTM D5(85m) 225 3		Nickel	ppm	ASTM D5185(m)	>10	<1		
Aluminum ppm ASTM D5185 m >-25 3		Titanium	ppm	ASTM D5185(m)		0		
Lead ppm ASTM D5185(m) >50 1 .		Silver	ppm	ASTM D5185(m)		0		
Copper		Aluminum	ppm	ASTM D5185(m)	>25	3		
Tin		Lead	ppm	ASTM D5185(m)	>50	1		
Vanadium ppm ASTM D5185(m) 0 White Metal scalar Visual* NONE NONE NONE Vellow Metal scalar Visual* NONE NONE NONE NONE NONE NONE NONE		Copper	ppm	ASTM D5185(m)	>50	58		
White Metal Scalar Visual* NONE NO		Tin	ppm	ASTM D5185(m)	>10	0		
Yellow Metal scalar Visual* NONE NONE CONTAMINATION Silicon ppm ASTM D5185(m) >100 20 Potassium ppm ASTM D5185(m) >20 < Water WC Method >0.25 NEG Silt scalar Visual* NONE NONE NONE Silt scalar Visual* NONE NONE NONE Sand/Dirt scalar Visual* NONE NONE NONE Appearance scalar Visual* NORML Appearance scalar Visual* NORML NORM			ppm	ASTM D5185(m)		0		
Silicon ppm ASTM 05185 m > 100 20		White Metal	scalar	Visual*	NONE	NONE		
Potassium ppm ASTM D5185(m) >20 <1 Water WC Method >0.25 NEG Silt scalar Visual* NONE NONE NONE Debris scalar Visual* NONE NONE NONE NONE NONE Sand/Dirt scalar Visual* NONE NORML		Yellow Metal	scalar	Visual*	NONE	NONE		
Water WC Method >0.25 NEG	CONTAMINATION	Silicon	ppm	ASTM D5185(m)	>100	20		
Water WC Method >0.25 NEG Silt scalar Visual* NONE NONE Debris scalar Visual* NONE NONE NONE Sand/Dirt scalar Visual* NONE NONE Appearance scalar Visual* NORML	There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185(m)	>20	<1		
Debris Scalar Visual* NONE NORML		Water		WC Method	>0.25	NEG		
Sand/Dirt Scalar Visual* NONE NORML NORML		Silt	scalar	Visual*	NONE	NONE		
Appearance Scalar Visual* NORML NORM		Debris	scalar	Visual*	NONE	NONE		
Odor		Sand/Dirt	scalar	Visual*	NONE	NONE		
Emulsified Water scalar Visual* >0.25 NEG		Appearance	scalar	Visual*	NORML	NORML		
Sodium ppm ASTM D5185(m) 379 0		Odor	scalar	Visual*	NORML	NORML		
Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service. Barium ppm ASTM D5185(m) 0.0 2 Molybdenum ppm ASTM D5185(m) 0.8 0 Manganese ppm ASTM D5185(m) 0.0 2 Magnesium ppm ASTM D5185(m) 31 <1 Calcium ppm ASTM D5185(m) 38 4 Phosphorus ppm ASTM D5185(m) 1077 325 Sulfur ppm ASTM D5185(m) 23526 14003		Emulsified Water	scalar	Visual*	>0.25	NEG		
Additive levels indicate the addition of a different braind, of type of oil. The condition of the oil is acceptable for the time in service. Barium ppm ASTM D5185(m) 0.0 2 Molybdenum ppm ASTM D5185(m) 0.0 2 Magnesium ppm ASTM D5185(m) 31 <1 Calcium ppm ASTM D5185(m) 38 4 Phosphorus ppm ASTM D5185(m) 1077 325 Zinc ppm ASTM D5185(m) 46 39 Sulfur ppm ASTM D5185(m) 23526 14003	FLUID CONDITION	Sodium	ppm	ASTM D5185(m)		2		
The condition of the oil is acceptable for the time in service. Barium ppm ASTM D5185(m) 0.0 2	Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185(m)	379	0		
Manganese ppm ASTM D5185(m) 0.0 2 Magnesium ppm ASTM D5185(m) 31 <1 Calcium ppm ASTM D5185(m) 38 4 Phosphorus ppm ASTM D5185(m) 1077 325 Zinc ppm ASTM D5185(m) 46 39 Sulfur ppm ASTM D5185(m) 23526 14003		Barium	ppm	ASTM D5185(m)	0.0	2		
Magnesium ppm ASTM D5185(m) 31 <1 Calcium ppm ASTM D5185(m) 38 4 Phosphorus ppm ASTM D5185(m) 1 077 325 Zinc ppm ASTM D5185(m) 46 39 Sulfur ppm ASTM D5185(m) 23526 14003		Molybdenum	ppm	ASTM D5185(m)	0.8	0		
Calcium ppm ASTM D5185(m) 38 4 Phosphorus ppm ASTM D5185(m) 1077 325 Zinc ppm ASTM D5185(m) 46 39 Sulfur ppm ASTM D5185(m) 23526 14003		Manganese	ppm	ASTM D5185(m)	0.0	2		
Phosphorus ppm ASTM D5185(m) 1 077 325 Zinc ppm ASTM D5185(m) 46 39 Sulfur ppm ASTM D5185(m) 23526 14003		ū	ppm	ASTM D5185(m)	31	<1		
Zinc ppm ASTM D5185(m) 46 39 Sulfur ppm ASTM D5185(m) 23526 14003		Calcium	ppm	ASTM D5185(m)	38			
Sulfur ppm ASTM D5185(m) 23526 14003			ppm					
			ppm	, ,				
Visc @ 40°C cSt ASTM D7279(m) 139 167								
		Visc @ 40°C	cSt	ASTM D7279(m)	139	167)	





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

Lab Number : 02618413

: VCP394163 Unique Number : 5735523 Test Package : MOB 1

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Received **Tested** Diagnosed

: 27 Feb 2024 : 27 Feb 2024

: 28 Feb 2024 - Kevin Marson

STRONGCO EQUIPMENT INC. 55 ISNOR DRIVE, BURNSIDE INDUSTRIALPARK DARTMOUTH, NS CA B3B 1N6 Contact: Lindsay Downs

ldowns@strongco.com T: (902)468-5010 F: (902)468-2468

To discuss this sample report, contact Customer Service at 1-800-268-2131.

Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.