



## Machine Id VOLVO ECR145E 316243 Component Front Right Final Drive Fluid GEAR OIL SAE 80W90 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) GEAR OIL SAE 80W90. Please confirm.

## WEAR

Metal levels are typical for a new component breaking in.

## CONTAMINATION

There is no indication of any contamination in the oil.

## FLUID CONDITION

The condition of the oil is acceptable for the time in service.

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TestUOMMethodLimitAbnCurrentHistory1History2Sample NumberClient Info20 Dec 2023Machine AgehrsClient Info951Machine AgehrsClient Info0Filter AgehrsClient Info0Oil ChangedClient InfoN/AFilter ChagedClient InfoN/AFilter ChagedClient InfoN/ASample StatusClient InfoN/ATronppmASTMD5185/m>105NickelppmASTMD5185/m>10<1NickelppmASTMD5185/m>10<1AluminumppmASTMD5185/m>250AluminumppmASTMD5185/m>1018VanadiumppmASTMD5185/m>1018Yalow MetalscalarVisual*NONEVLITESiliconppmASTMD5185/m>1018Yalow MetalscalarVisual*NONENONESiliconppmASTMD5185/m>203Yalow MetalscalarVisual*NONENONEYalow MetalscalarVisual*NONENONEYalow MetalscalarV							
Sample DateClient InfoJo Dec 2023Machine AgehrsClient Info951Oil AgehrsClient Info0Filter AgehrsClient InfoN/AOil ChangedClient InfoN/AFilter ChangedClient InfoN/AFilter ChangedClient InfoN/ASample StatusViralNORMALIronppmASTMD5/85(m)>500296IronppmASTMD5/85(m)>10<1NickelppmASTMD5/85(m)>10<1JuaniumppmASTMD5/85(m)>258AluminumppmASTMD5/85(m)>50<1VanadiumppmASTMD5/85(m)>1018Yellow MetalscalarVisual*NONEVILITESiliconppmASTMD5/85(m)>7333Yellow MetalscalarVisual*NONENONESiliconppmASTMD5/85(m)>7033PotassiumppmASTMD5/85(m)>10NONESiliconppmASTMD5/85(m)NONENONE<	Test	UOM	Method	Limit/Abn	Current	History1	History2
Machine Age         hrs         Client Info         951             Oil Age         hrs         Client Info         0             Filter Age         hrs         Client Info         N/A             Oil Changed         Client Info         N/A             Filter Changed         Client Info         N/A             Sample Status         Client Info         N/A             Iron         ppm         ASTM D5185(m)         >500         296             Chromium         ppm         ASTM D5185(m)         >10         <1             Nickel         ppm         ASTM D5185(m)         >10         <1             Silver         ppm         ASTM D5185(m)         >25         8             Auminum         ppm         ASTM D5185(m)         >10         18             Vanadium         ppm         ASTM D5185(m)         >18              Yellow Metal	Sample Number		Client Info		VCP335159		
Oll Age         hrs         Client Info         0             Filter Age         hrs         Client Info         N/A             Oil Changed         Client Info         N/A             Filter Changed         Client Info         N/A             Sample Status         Client Info         N/A             Iron         ppm         ASTM D5185(m)         >500         296             Chromium         ppm         ASTM D5185(m)         >10         <1             Nickel         ppm         ASTM D5185(m)         >10         <1             Aluminum         ppm         ASTM D5185(m)         >25         8             Aluminum         ppm         ASTM D5185(m)         >50         <11             Adatium         ppm         ASTM D5185(m)         >50         <11             Vanadium         ppm         ASTM D5185(m)         >50         <11 <tr< th=""><th>Sample Date</th><th></th><th>Client Info</th><th></th><th>20 Dec 2023</th><th></th><th></th></tr<>	Sample Date		Client Info		20 Dec 2023		
Filter Age         hrs         Client Info         0            Oil Changed         Client Info         N/A             Filter Changed         Client Info         N/A             Sample Status         NORMAL             Iron         ppm         ASTM D5185(m)         >500         296            Chromium         ppm         ASTM D5185(m)         >10         5            Nickel         ppm         ASTM D5185(m)         >10         <1            Silver         ppm         ASTM D5185(m)          0            Aluminum         ppm         ASTM D5185(m)         >25         8            Aluminum         ppm         ASTM D5185(m)         >50         <1            Yellow Metal         scalar         Visual*         NONE         VLITE            Yellow Metal         scalar         Visual*         NONE         NONE            Yellow Metal         scalar         Visual*         NONE             Yellow Metal         scalar <th>Machine Age</th> <th>hrs</th> <th>Client Info</th> <th></th> <th>951</th> <th></th> <th></th>	Machine Age	hrs	Client Info		951		
Oil Changed         Client Info         N/A            Filter Changed         Client Info         N/A            Sample Status         NORMAL            Iron         ppm         ASTM D5185(m)         >500         296            Iron         ppm         ASTM D5185(m)         >10         5            Nickel         ppm         ASTM D5185(m)         >10         <1	Oil Age	hrs	Client Info		0		
Filter Changed         Client Info         N/A            Sample Status         NORMAL             Iron         ppm         ASTM D5185(m)         >500         296            Chromium         ppm         ASTM D5185(m)         >10         5            Nickel         ppm         ASTM D5185(m)         >10         <1            Nickel         ppm         ASTM D5185(m)         >10         <1            Silver         ppm         ASTM D5185(m)         >0             Aluminum         ppm         ASTM D5185(m)         >25         8             Auminum         ppm         ASTM D5185(m)         >25         0	Filter Age	hrs	Client Info		0		
Sample Status         NORMAL            Iron         ppm         ASTM D5185(m)         >500         296            Chromium         ppm         ASTM D5185(m)         >10         5            Nickel         ppm         ASTM D5185(m)         >10         c1            Nickel         ppm         ASTM D5185(m)         >0             Silver         ppm         ASTM D5185(m)         >25         8             Aluminum         ppm         ASTM D5185(m)         >25         0             Lead         ppm         ASTM D5185(m)         >25         0             Vanadium         ppm         ASTM D5185(m)         >0	Oil Changed		Client Info		N/A		
Iron         ppm         ASTM D5185(m)         >500         296             Chromium         ppm         ASTM D5185(m)         >10         5             Nickel         ppm         ASTM D5185(m)         >10         <1             Titanium         ppm         ASTM D5185(m)         0             Aluminum         ppm         ASTM D5185(m)         >25         8             Aluminum         ppm         ASTM D5185(m)         >25         0             Lead         ppm         ASTM D5185(m)         >50         <1             Vanadium         ppm         ASTM D5185(m)         >50         <18             Vanadium         ppm         ASTM D5185(m)         >10         18             Vanadium         ppm         ASTM D5185(m)         >10         18             Vanadium         ppm         ASTM D5185(m)         >20         3             Yellow Metal         scalar	Filter Changed		Client Info		N/A		
Chromium         ppm         ASTM D5185(m)         >10         5             Nickel         ppm         ASTM D5185(m)         >10         <1             Titanium         ppm         ASTM D5185(m)         0             Aluminum         ppm         ASTM D5185(m)         >25         8             Aluminum         ppm         ASTM D5185(m)         >25         0             Copper         ppm         ASTM D5185(m)         >50         <1             Vanadium         ppm         ASTM D5185(m)         >10         18             Vanadium         ppm         ASTM D5185(m)         >10              Vanadium         ppm         ASTM D5185(m)         >10              Vanadium         ppm         ASTM D5185(m)         >75         33             Silicon         ppm         ASTM D5185(m)         >20         3             Silit         scalar	Sample Status				NORMAL		
Chromium         ppm         ASTM D5185(m)         >10         5             Nickel         ppm         ASTM D5185(m)         >10         <1             Titanium         ppm         ASTM D5185(m)         0             Aluminum         ppm         ASTM D5185(m)         >25         8             Aluminum         ppm         ASTM D5185(m)         >25         0             Copper         ppm         ASTM D5185(m)         >50         <1             Vanadium         ppm         ASTM D5185(m)         >10         18             Vanadium         ppm         ASTM D5185(m)         >10              Vanadium         ppm         ASTM D5185(m)         >10              Vanadium         ppm         ASTM D5185(m)         >75         33             Silicon         ppm         ASTM D5185(m)         >20         3             Silit         scalar							
Nickel         ppm         ASTM D5185(m)         >10         <1							
Titanium         ppm         ASTM D5185(m)         0            Silver         ppm         ASTM D5185(m)         0            Aluminum         ppm         ASTM D5185(m)         >25         8            Lead         ppm         ASTM D5185(m)         >25         0            Copper         ppm         ASTM D5185(m)         >50         <1            Tin         ppm         ASTM D5185(m)         >10         18            Vanadium         ppm         ASTM D5185(m)         >10         18            Vanadium         ppm         ASTM D5185(m)         >10         18            Vandum         ppm         ASTM D5185(m)         >10         18            Vandum         ppm         ASTM D5185(m)         >10         18            Yellow Metal         scalar         Visual*         NONE         NONE            Silicon         ppm         ASTM D5185(m)         >20         3             Silit         scalar         Visual*         NONE         NONE		ppm	× 7		-		
Silver         ppm         ASTM D5185(m)         0            Aluminum         ppm         ASTM D5185(m)         >25         8            Lead         ppm         ASTM D5185(m)         >25         0            Copper         ppm         ASTM D5185(m)         >50         <1            Tin         ppm         ASTM D5185(m)         >10         18            Vanadium         ppm         ASTM D5185(m)         0             White Metal         scalar         Visual*         NONE         VLITE             Yellow Metal         scalar         Visual*         NONE         NONE             Silicon         ppm         ASTM D5185(m)         >20         3             Silicon         ppm         ASTM D5185(m)         >20         3             Silicon         ppm         ASTM D5185(m)         >20         3             Silit         scalar         Visual*         NONE         NORE             Debris				>10			
Aluminum         ppm         ASTM D5185(m)         >25         8            Lead         ppm         ASTM D5185(m)         >25         0            Copper         ppm         ASTM D5185(m)         >50         <1            Tin         ppm         ASTM D5185(m)         >10         18            Vanadium         ppm         ASTM D5185(m)         0             Vanadium         ppm         ASTM D5185(m)         >10         18             Vanadium         ppm         ASTM D5185(m)         >10         18             Vanadium         ppm         ASTM D5185(m)         >10         18             Vanadium         ppm         ASTM D5185(m)         >75         33             Yellow Metal         scalar         Visual*         NONE         NONE             Silicon         ppm         ASTM D5185(m)         >0.2         NEG             Sult         scalar         Visual*         NONE         NORL			. ,		-		
Lead         ppm         ASTM D5185(m)         >25         0             Copper         ppm         ASTM D5185(m)         >50         <1					-		
Copper         ppm         ASTM D5185(m)         >50         <1		ppm	( /		-		
Tin         ppm         ASTM D5185(m)         >10         18            Vanadium         ppm         ASTM D5185(m)         0             White Metal         scalar         Visual*         NONE         VLITE            Yellow Metal         scalar         Visual*         NONE         NONE            Yellow Metal         scalar         Visual*         NONE         NONE            Silicon         ppm         ASTM D5185(m)         >75         33             Potassium         ppm         ASTM D5185(m)         >20         3             Water         WC Method         >0.2         NEG             Silt         scalar         Visual*         NONE             Debris         scalar         Visual*         NORM         NORML             Appearance         scalar         Visual*         NORML         NORML             Gdor         scalar         Visual*         NORML         NORML		ppm			-		
Vanadium         ppm         ASTM D5185(m)         0            White Metal         scalar         Visual*         NONE         VLITE            Yellow Metal         scalar         Visual*         NONE         NONE            Silicon         ppm         ASTM D5185(m)         >75         33             Silicon         ppm         ASTM D5185(m)         >20         3             Potassium         ppm         ASTM D5185(m)         >20         3             Water         WC Method         >0.2         NEG             Silt         scalar         Visual*         NONE         NONE             Sand/Dirt         scalar         Visual*         NONE         NORML             Appearance         scalar         Visual*         NORML         NORML             Odor         scalar         Visual*         NORML         NORML             Sodium         ppm         ASTM D5185(m)         >170         5		ppm	( /	>50			
White MetalscalarVisual*NONEVLITEYellow MetalscalarVisual*NONENONESiliconppmASTM D5185(m)>7533PotassiumppmASTM D5185(m)>203WaterWC Method>0.2NEGSilitscalarVisual*NONENONEDebrisscalarVisual*NONENONESand/DirtscalarVisual*NORENOREAppearancescalarVisual*NORMNORMLOdorscalarVisual*NORMNORMLSodiumppmASTM D5185(m)>1705BoronppmASTM D5185(m)200<1MolybdenumppmASTM D5185(m)120ManganeseppmASTM D5185(m)122ManganeseppmASTM D5185(m)150277PhosphorusppmASTM D5185(m)1650875ZincppmASTM D5185(m)12523SulfurppmASTM D5185(m)12523ManganeseppmASTM D5185(m)12523PhosphorusppmASTM D5185(m)12523SulfurppmASTM D5185(m)12523		ppm	( )	>10	-		
Yellow Metal         scalar         Visual*         NONE         NONE            Silicon         ppm         ASTM D5185(m)         >75         33             Potassium         ppm         ASTM D5185(m)         >20         3             Water         WC Method         >0.2         NEG             Silit         scalar         Visual*         NONE         NONE             Sand/Dirt         scalar         Visual*         NONE         NONE             Sand/Dirt         scalar         Visual*         NONE         NORE             Appearance         scalar         Visual*         NORM         NORML             Odor         scalar         Visual*         NORM         NORML             Sodium         ppm         ASTM D5185(m)         >170         5             Boron         ppm         ASTM D5185(m)         200         <1             Molybdenum         ppm         ASTM D5185(m)					-		
Silicon       ppm       ASTM D5185(m)       >75       33          Potassium       ppm       ASTM D5185(m)       >20       3          Water       WC Method       >0.2       NEG           Silt       scalar       Visual*       NONE       NONE           Debris       scalar       Visual*       NONE       VLITE           Sand/Dirt       scalar       Visual*       NONE       NONE           Appearance       scalar       Visual*       NORML       NORML           Odor       scalar       Visual*       NORML       NORML           Sodium       ppm       ASTM D5185(m)       >0.2       NEG           Sodium       ppm       ASTM D5185(m)       >0.2       NEG           Boron       ppm       ASTM D5185(m)       >0.2       NEG           Molybdenum       ppm       ASTM D5185(m)       200       <1           Magnesium       ppm       ASTM D5185(m)		scalar					
PotassiumppmASTM D5185(m)>203WaterWC Method>0.2NEGSiltscalarVisual*NONENONEDebrisscalarVisual*NONEVLITESand/DirtscalarVisual*NONENONEAppearancescalarVisual*NORMLNORMLOdorscalarVisual*NORMLNORMLOdorscalarVisual*NORMLNORMLEmulsified WaterscalarVisual*NORMLNORMLSodiumppmASTM D5185(m)>1705BoronppmASTM D5185(m)200<1MolybdenumppmASTM D5185(m)120MagnesiumppmASTM D5185(m)122MagnesiumppmASTM D5185(m)150277PhosphorusppmASTM D5185(m)1650875ZincppmASTM D5185(m)12523SulfurppmASTM D5185(m)12523NagnesiumppmASTM D5185(m)12523ZincppmASTM D5185(m)12523ZincppmASTM D5185(m)12523 <td< th=""><th>Yellow Metal</th><th>scalar</th><th>Visual*</th><th>NONE</th><th>NONE</th><th></th><th></th></td<>	Yellow Metal	scalar	Visual*	NONE	NONE		
PotassiumppmASTM D5185(m)>203WaterWC Method>0.2NEGSiltscalarVisual*NONENONEDebrisscalarVisual*NONEVLITESand/DirtscalarVisual*NONENONEAppearancescalarVisual*NORMLNORMLOdorscalarVisual*NORMLNORMLOdorscalarVisual*NORMLNORMLEmulsified WaterscalarVisual*NORMLNORMLSodiumppmASTM D5185(m)>1705BoronppmASTM D5185(m)200<1MolybdenumppmASTM D5185(m)120MagnesiumppmASTM D5185(m)122MagnesiumppmASTM D5185(m)150277PhosphorusppmASTM D5185(m)1650875ZincppmASTM D5185(m)12523SulfurppmASTM D5185(m)12523NagnesiumppmASTM D5185(m)12523ZincppmASTM D5185(m)12523ZincppmASTM D5185(m)12523 <td< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th></td<>							
WaterWC Method>0.2NEGSiltscalarVisual*NONENONEDebrisscalarVisual*NONEVLITESand/DirtscalarVisual*NONENONEAppearancescalarVisual*NORMLNORMLOdorscalarVisual*NORMLNORMLEmulsified WaterscalarVisual*>0.2NEGSodiumppmASTM D5185(m)>1705BoronppmASTM D5185(m)200<1MalganeseppmASTM D5185(m)120MagnesiumppmASTM D5185(m)122PhosphorusppmASTM D5185(m)150277ZincppmASTM D5185(m)12523SulfurppmASTM D5185(m)12523	Silicon		ASTM D5185(m)	>75	33		
SiltscalarVisual*NONENONEDebrisscalarVisual*NONEVLITESand/DirtscalarVisual*NONENONEAppearancescalarVisual*NORMLNORMLOdorscalarVisual*NORMLNORMLOdorscalarVisual*NORMLNORMLEmulsified WaterscalarVisual*>0.2NEGSodiumppmASTM D5185(m)>1705BoronppmASTM D5185(m)200<1MolybdenumppmASTM D5185(m)120MagnesiumppmASTM D5185(m)122MagnesiumppmASTM D5185(m)150277PhosphorusppmASTM D5185(m)1650875ZincppmASTM D5185(m)12523SulfurppmASTM D5185(m)2250022165							
DebrisscalarVisual*NONEVLITESand/DirtscalarVisual*NONENONEAppearancescalarVisual*NORMLNORMLNORMLOdorscalarVisual*NORMLNORMLOdorscalarVisual*NORMLNORMLEmulsified WaterscalarVisual*>0.2NEGSodiumppmASTM D5185(m)>1705BoronppmASTM D5185(m)200<1BariumppmASTM D5185(m)200<1MolybdenumppmASTM D5185(m)120MagnesiumppmASTM D5185(m)122MagnesiumppmASTM D5185(m)150277PhosphorusppmASTM D5185(m)12523ZincppmASTM D5185(m)12523SulfurppmASTM D5185(m)2250022165	Potassium		ASTM D5185(m)	>20	3		
AppearancescalarVisual*NORMLNORMLOdorscalarVisual*NORMLNORMLEmulsified WaterscalarVisual*>0.2NEGSodiumppmASTM D5185(m)>1705BoronppmASTM D5185(m)200124BariumppmASTM D5185(m)200<1MolybdenumppmASTM D5185(m)120ManganeseppmASTM D5185(m)122MagnesiumppmASTM D5185(m)122PhosphorusppmASTM D5185(m)1650875ZincppmASTM D5185(m)12523SulfurppmASTM D5185(m)2250022165	Potassium Water	ppm	ASTM D5185(m) WC Method	>20 >0.2	3 NEG	 	  
AppearancescalarVisual*NORMLNORMLOdorscalarVisual*NORMLNORMLEmulsified WaterscalarVisual*>0.2NEGSodiumppmASTM D5185(m)>1705BoronppmASTM D5185(m)200<1BariumppmASTM D5185(m)200<1MolybdenumppmASTM D5185(m)120ManganeseppmASTM D5185(m)122MagnesiumppmASTM D5185(m)150277PhosphorusppmASTM D5185(m)1650875ZincppmASTM D5185(m)12523SulfurppmASTM D5185(m)2250022165	Potassium Water Silt	ppm scalar	ASTM D5185(m) WC Method Visual*	>20 >0.2 NONE	3 NEG NONE	  	   
OdorscalarVisual*NORMLNORMLEmulsified WaterscalarVisual*>0.2NEGSodiumppmASTM D5185(m)>1705BoronppmASTM D5185(m)400124BariumppmASTM D5185(m)200<1MolybdenumppmASTM D5185(m)120ManganeseppmASTM D5185(m)124MagnesiumppmASTM D5185(m)122PhosphorusppmASTM D5185(m)150277ZincppmASTM D5185(m)12523SulfurppmASTM D5185(m)12523	Potassium Water Silt Debris	ppm scalar scalar	ASTM D5185(m) WC Method Visual* Visual*	>20 >0.2 NONE NONE	3 NEG NONE VLITE	  	   
Sodium         ppm         ASTM D5185(m)         >170         5            Boron         ppm         ASTM D5185(m)         400         124             Barium         ppm         ASTM D5185(m)         200         <1             Molybdenum         ppm         ASTM D5185(m)         200         <1             Manganese         ppm         ASTM D5185(m)         12         0             Magnesium         ppm         ASTM D5185(m)         12         2             Calcium         ppm         ASTM D5185(m)         12         2             Phosphorus         ppm         ASTM D5185(m)         150         27             Zinc         ppm         ASTM D5185(m)         1650         875             Sulfur         ppm         ASTM D5185(m)         125         23	Potassium Water Silt Debris Sand/Dirt	ppm scalar scalar scalar	ASTM D5185(m) WC Method Visual* Visual* Visual*	>20 >0.2 NONE NONE NONE	3 NEG NONE VLITE NONE		
Boron         ppm         ASTM D5185(m)         400         124            Barium         ppm         ASTM D5185(m)         200         <1            Molybdenum         ppm         ASTM D5185(m)         12         0            Manganese         ppm         ASTM D5185(m)         12         4            Magnesium         ppm         ASTM D5185(m)         12         2            Calcium         ppm         ASTM D5185(m)         12         2            Phosphorus         ppm         ASTM D5185(m)         150         277            Zinc         ppm         ASTM D5185(m)         1650         8755            Sulfur         ppm         ASTM D5185(m)         125         23	Potassium Water Silt Debris Sand/Dirt Appearance	ppm scalar scalar scalar scalar	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual*	>20 >0.2 NONE NONE NONE NORML	3 NEG NONE VLITE NONE NORML		  
Boron         ppm         ASTM D5185(m)         400         124            Barium         ppm         ASTM D5185(m)         200         <1            Molybdenum         ppm         ASTM D5185(m)         12         0            Manganese         ppm         ASTM D5185(m)         12         4            Magnesium         ppm         ASTM D5185(m)         12         2            Calcium         ppm         ASTM D5185(m)         12         2            Phosphorus         ppm         ASTM D5185(m)         150         277            Zinc         ppm         ASTM D5185(m)         1650         8755            Sulfur         ppm         ASTM D5185(m)         125         23	Potassium Water Silt Debris Sand/Dirt Appearance Odor	ppm scalar scalar scalar scalar scalar	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual*	>20 >0.2 NONE NONE NORML NORML	3 NEG NONE VLITE NONE NORML NORML	 	  
Barium         ppm         ASTM D5185(m)         200         <1	Potassium Water Silt Debris Sand/Dirt Appearance Odor	ppm scalar scalar scalar scalar scalar	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual*	>20 >0.2 NONE NONE NORML NORML	3 NEG NONE VLITE NONE NORML NORML	 	  
Molybdenum         ppm         ASTM D5185(m)         12         0            Manganese         ppm         ASTM D5185(m)         4             Magnesium         ppm         ASTM D5185(m)         12         2             Magnesium         ppm         ASTM D5185(m)         12         2             Calcium         ppm         ASTM D5185(m)         150         27             Phosphorus         ppm         ASTM D5185(m)         1650         8755             Zinc         ppm         ASTM D5185(m)         125         23             Sulfur         ppm         ASTM D5185(m)         22500         22165	Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water	ppm scalar scalar scalar scalar scalar scalar	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual*	>20 >0.2 NONE NONE NORML NORML >0.2	3 NEG NONE VLITE NONE NORML NORML NEG	   	    
Manganese         ppm         ASTM D5185(m)         4             Magnesium         ppm         ASTM D5185(m)         12         2             Calcium         ppm         ASTM D5185(m)         150         27             Phosphorus         ppm         ASTM D5185(m)         1650         875             Zinc         ppm         ASTM D5185(m)         125         23             Sulfur         ppm         ASTM D5185(m)         22500         22165	Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium	ppm scalar scalar scalar scalar scalar scalar ppm	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m)	>20 >0.2 NONE NONE NORML NORML >0.2	3 NEG NONE VLITE NONE NORML NEG 5	    	
Magnesium         ppm         ASTM D5185(m)         12         2            Calcium         ppm         ASTM D5185(m)         150         27             Phosphorus         ppm         ASTM D5185(m)         1650         875             Zinc         ppm         ASTM D5185(m)         125         23             Sulfur         ppm         ASTM D5185(m)         22500         22165	Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron	ppm scalar scalar scalar scalar scalar scalar ppm	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m)	>20 >0.2 NONE NONE NORML >0.2 >170 400	3 NEG NONE VLITE NORE NORML NORML NEG 5 124		
Calcium         ppm         ASTM D5185(m)         150         27            Phosphorus         ppm         ASTM D5185(m)         1650         875             Zinc         ppm         ASTM D5185(m)         125         23             Sulfur         ppm         ASTM D5185(m)         22500         22165	Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	ppm scalar scalar scalar scalar scalar scalar ppm ppm	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m)	>20 >0.2 NONE NONE NORML NORML >0.2 >170 400 200	3 NEG NONE VLITE NORML NORML NEG 5 124 <1		
Phosphorus         ppm         ASTM D5185(m)         1650         875             Zinc         ppm         ASTM D5185(m)         125         23             Sulfur         ppm         ASTM D5185(m)         22500         22165	Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum	ppm scalar scalar scalar scalar scalar scalar ppm ppm ppm	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>20 >0.2 NONE NONE NORML NORML >0.2 >170 400 200	3 NEG NONE VLITE NORML NORML NEG 5 124 <1 0		
Zinc         ppm         ASTM D5185(m)         125         23             Sulfur         ppm         ASTM D5185(m)         22500         22165	Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Manganese	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>20 >0.2 NONE NONE NORML >0.2 >170 400 200 12	3 NEG NONE VLITE NORML NORML NEG 5 124 <1 0 4		
Sulfur         ppm         ASTM D5185(m)         22500         22165	Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>20 >0.2 NONE NONE NORML NORML >0.2 >170 400 200 12	3 NEG NONE VLITE NORML NORML NEG 5 124 <1 0 4 2		
	Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Barium Malybdenum Manganese Magnesium	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>20 >0.2 NONE NONE NORML NORML >0.2 >170 400 200 12	3 NEG NONE VLITE NORML NORML NEG 5 124 <1 0 4 2 27		
Visc @ 40°C cSt ASTM D7279(m) 143 136	Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Barium Malybdenum Manganese Magnesium Calcium	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>20 >0.2 NONE NONE NORML >0.2 >170 400 200 12 12 12 150 1650	3 NEG NONE VLITE NORML NORML NEG 5 124 <1 0 4 2 2 27 875		
	Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>20 >0.2 NONE NONE NORML >0.2 >170 400 200 12 12 12 150 1650 125	3 NEG NONE VLITE NONE NORML NORML NEG 5 124 <1 0 4 2 27 875 23		

Contact/Location: Myles Bancarz - CITKEL



**CITY OF KELOWNA** Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 CALA Sample No. : VCP335159 Recieved : 09 Jan 2024 1435 WATER STREET Lab Number KELOWNA, BC : 02607578 Diagnosed : 09 Jan 2024 ISO 17025:2017 : 5708664 Diagnostician Accredited : Kevin Marson CA V1Y 1J4 Unique Number Laboratory Test Package : MOB 1 Contact: Myles Bancarz To discuss this sample report, contact Customer Service at 1-800-268-2131. mbancarz@kelowna.ca Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab. T: (250)763-6011 Validity of results and interpretation are based on the sample and information as supplied. F: (250)868-3330

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