

Machine Id **TAKEUCHI TL12 412104961** Component **Hydraulic System** Fluid FACTORY (--- GAL)

RECON	IMEND	ATION
-------	--------------	-------

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.



All component wear rates are normal.

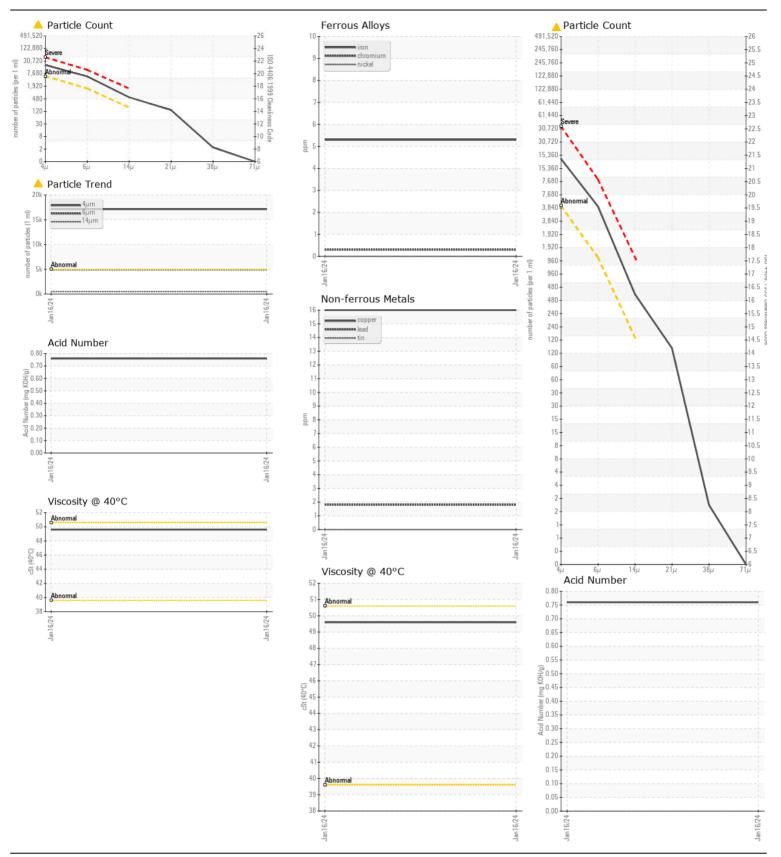
CONTAMINATION

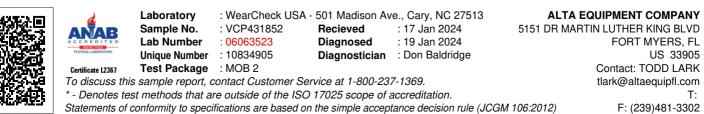
There is a high amount of particulates present in the oil.

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

Test UOM Method Limit/A Current History1 History2 Sample Number Client Info VCP431652 Machine Age hrs Client Info 0 Machine Age hrs Client Info 0 Oil Age hrs Client Info 0 Oil Age Kit Client Info 0 Filter Changed Client Info Not Changed Simple Status ABNORMAL Infon ppm ASTM D5185m >10 <-1 Nickel ppm ASTM D5185m >10 2 Aluminum ppm ASTM D5185m >10 0 Aluminum ppm ASTM D5185m >10 0 Matinum ppm ASTM D5185m >10					~~~~~		
Sample Date Client Info 16 Jan 2024 Machine Age hrs Client Info 0 Oil Age hrs Client Info 0 Oil Changed Client Info 0 Cil Changed Client Info Not Changed Sample Status Sibon Status Sibon Status Iron ppm ASTM D5185m >10 0 Nickel ppm ASTM D5185m >10 2 Silver ppm ASTM D5185m >10 2 Lead ppm ASTM D5185m >10 2 Vanadium ppm ASTM D5185m >10 0 Vanadium ppm ASTM D5185m >20 6 Vanadium </th <th>Test</th> <th>UOM</th> <th>Method</th> <th>Limit/Abn</th> <th>Current</th> <th>History1</th> <th>History2</th>	Test	UOM	Method	Limit/Abn	Current	History1	History2
Machine Age hrs Client Info 879 Filter Age hrs Client Info 0 Gil Age hrs Client Info Not Changed Filter Changed Client Info Not Changed Sample Status ABNORMAL Iron ppm ASTM D5185m >20 5 Nickel ppm ASTM D5185m 10 -1 Silver ppm ASTM D5185m 10 2 Aluminum ppm ASTM D5185m 10 2 Copper ppm ASTM D5185m 5 16 Tin ppm ASTM D5185m 20 2 Yellow Metal scalar YUsual NONE Yellow Metal scalar YUsual	Sample Number		Client Info		VCP431852		
Machine Age hrs Client Info 879 Filter Age hrs Client Info 0 Gil Age hrs Client Info Not Changed Filter Changed Client Info Not Changed Sample Status ABNORMAL Iron ppm ASTM D5185m >20 5 Nickel ppm ASTM D5185m 10 -1 Silver ppm ASTM D5185m 10 2 Aluminum ppm ASTM D5185m 10 2 Copper ppm ASTM D5185m 5 16 Tin ppm ASTM D5185m 20 2 Yellow Metal scalar YUsual NONE Yellow Metal scalar YUsual	Sample Date		Client Info		16 Jan 2024		
Oil Age hrs Client Info 0 Filter Age hrs Client Info 0 Not Changed Oil Changed Client Info Not Changed Filter Changed Client Info Changed Sample Status ASTM D5185m >20 5 Iron ppm ASTM D5185m >10 0 Nickel ppm ASTM D5185m >10 0 Aluminum ppm ASTM D5185m >10 2 Auminum ppm ASTM D5185m >10 2 Vanadium ppm ASTM D5185m >10 0 Vanadium ppm ASTM D5185m >20 2 Valandium ppm ASTM D5185m >20 2 Vellow Metal		hrs					
Filter Age hrs Client Info Not Changed Filter Changed Client Info Not Changed Sample Status ABNORMAL Iron ppm ASTM D5185m >20 5 Chromium ppm ASTM D5185m >10 0 Nickel ppm ASTM D5185m >10 0 Silver ppm ASTM D5185m >10 2 Aluminum ppm ASTM D5185m >10 2 Vanadium ppm ASTM D5185m >10 0 Vanadium ppm ASTM D5185m >20 6 Vanadium ppm ASTM D5185m >20 2 Vallow Metal scalar *Visual NONE Ir112 <th>Ū</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	Ū						
Oil Changed Client Info Not Changed Filter Changed Client Info Changed Sample Status ABNORMAL Iron ppm ASTM D5185m >20 5 Nickel ppm ASTM D5185m >10 0 Silver ppm ASTM D5185m 0 Aluminum ppm ASTM D5185m >10 2 Auminum ppm ASTM D5185m >10 2 Auminum ppm ASTM D5185m >10 0 Vanadium ppm ASTM D5185m >10 0 Vanadium ppm ASTM D5185m >20 6 Vanadium ppm ASTM D5185m >20 2	Ū				-		
Filter Changed Sample Status Client Info Changed ABNORMAL Iron ppm ASTM D5185m >20 5 Iron ppm ASTM D5185m >10 0 Nickel ppm ASTM D5185m >10 0 Silver ppm ASTM D5185m 0 Aluminum ppm ASTM D5185m >10 2 Aluminum ppm ASTM D5185m >10 2 Vanadium ppm ASTM D5185m >10 0 Vanadium ppm ASTM D5185m >20 6 Vanadium ppm ASTM D5185m >20 2 Vanadium ppm ASTM D5185m >20 2 Vanadium ppm ASTM D5185m	J	1110			-		
Sample Status ABNORMAL Iron ppm ASTM D5185m >20 5 Iron ppm ASTM D5185m >10 -1 Nickel ppm ASTM D5185m >10 0 Silver ppm ASTM D5185m >10 2 Lead ppm ASTM D5185m >10 2 Lead ppm ASTM D5185m >10 0 Vanadium ppm ASTM D5185m >10 0 Vanadium ppm ASTM D5185m >10 0 Vanadium ppm ASTM D5185m >20 6 Vanadium ppm ASTM D5185m >20 2 Vellow Metal scalar *Visual NONE InT12	•				v		
Iron ppm ASTM D5185m >20 5 Chromium ppm ASTM D5185m >10 <1 Nickel ppm ASTM D5185m >10 0 Titanium ppm ASTM D5185m 0 2 Aluminum ppm ASTM D5185m >10 2 Lead ppm ASTM D5185m >10 2 Copper ppm ASTM D5185m >10 0 Vanadium ppm ASTM D5185m >20 6 Vanadium ppm ASTM D5185m >20 6 Vellow Metal scalar *Visual NONE LIGHT Silicon ppm ASTM D5185m >20 6 Paticles >4µm ASTM D7647 <t< th=""><th>Ŭ</th><th></th><th>Ollent IIIO</th><th></th><th>Ū.</th><th></th><th></th></t<>	Ŭ		Ollent IIIO		Ū.		
Chromium ppm ASTM D5185m >10 <1							
Chromium ppm ASTM D5185m >10 <1	Iron	maa	ASTM D5185m	>20	5		
Nickel ppm ASTM D5185m >10 0 Titanium ppm ASTM D5185m 0 Silver ppm ASTM D5185m 10 2 Aluminum ppm ASTM D5185m >10 2 Lead ppm ASTM D5185m >75 16 Copper ppm ASTM D5185m >10 0 Vanadium ppm ASTM D5185m >10 0 Vanadium ppm ASTM D5185m >20 6 Vanadium ppm ASTM D5185m >20 6 Veltow Metal scalar *Visual NONE Silicon ppm ASTM D7647 >100 2 Particles >4µm ASTM D7647 >30 0	Chromium		ASTM D5185m	>10			
Titanium ppm ASTM D5185m <1							
Silver ppm ASTM D5185m 0 Aluminum ppm ASTM D5185m >10 2 Lead ppm ASTM D5185m >10 2 Copper ppm ASTM D5185m >10 0 Vanadium ppm ASTM D5185m >10 0 Vanadium ppm ASTM D5185m >10 0 Vanadium ppm ASTM D5185m >20 2 Yellow Metal scalar *Visual NONE Potassium ppm ASTM D5185m<>20 2 Particles >4µm ASTM D7647 >5000 4 17125 Particles >4µm ASTM D7647 >10 2 Particles >21µm ASTM D7647				- 10			
Aluminum ppm ASTM D5185m >10 2 Lead ppm ASTM D5185m >10 2 Copper ppm ASTM D5185m >10 0 Vanadium ppm ASTM D5185m >10 0 Vanadium ppm ASTM D5185m >10 0 Vanadium ppm ASTM D5185m >20 6 Yellow Metal scalar *Visual NONE NONE Potassium ppm ASTM D5185m<>20 2 Particles >4µm ASTM D7647 >5000 ▲ 17125 Particles >6µm ASTM D7647 >100 4 496 Particles >71µm ASTM D7647 >10 2 Particles >71µm ASTM D7647 >10 <t< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<>							
Lead ppm ASTM D5185m >10 2 Copper ppm ASTM D5185m >75 16 Tin ppm ASTM D5185m >10 0 Vanadium ppm ASTM D5185m >10 0 White Metal scalar *Visual NONE LIGHT Yellow Metal scalar *Visual NONE Silicon ppm ASTM D5185m<>20 6 Vater WC Method >0.1 NEG Particles >4µm ASTM D7647 >160 496 Particles >14µm ASTM D7647 >10 2 Particles >21µm ASTM D7647 >10 2 Particles >38µm ASTM D7647 >3 <th></th> <th></th> <th></th> <th>>10</th> <th>-</th> <th></th> <th></th>				>10	-		
Copper ppm ASTM D5185m >75 16 Tin ppm ASTM D5185m >10 0 Vanadium ppm ASTM D5185m 0 White Metal scalar *Visual NONE LIGHT Yellow Metal scalar *Visual NONE 0 Silicon ppm ASTM D5185m >20 6 Potassium ppm ASTM D5185m >20 2 Patricles >4µm ASTM D7647 >5000 A 17125 Particles >4µm ASTM D7647 >100 A 9366 Particles >21µm ASTM D7647 >40 A 121 Particles >21µm ASTM D7647 >3 0 Solit scalar Visual NONE					_		
Tin ppm ASTM D5185m >10 0 Vanadium ppm ASTM D5185m 0 White Metal scalar *Visual NONE LIGHT Yellow Metal scalar *Visual NONE NONE Silicon ppm ASTM D5185m >20 2 Potassium ppm ASTM D5185m >20 2 Water WC Method >0.1 NEG Particles >4µm ASTM D7647 >100 4 4936 Particles >1µm ASTM D7647 >10 2 Particles >38µm ASTM D7647 >3 0 Particles >1µm ASTM D7647 >3 0 Particles >21µm ASTM D7647 >30 0					_		
Vanadium ppm ASTM D5185m 0 White Metal scalar *Visual NONE LIGHT Yellow Metal scalar *Visual NONE Silicon ppm ASTM D5185m >20 2 Potassium ppm ASTM D5185m >20 2 Water WC Method >0.1 NEG Particles >4µm ASTM D7647 >100 4936 Particles >51µm ASTM D7647 >10 2 Particles >38µm ASTM D7647 >10 2 Particles >51µm ASTM D7647 >30 Particles >51µm ASTM D7647 >30 Silt scalar *Visual NONE Silt <td< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th></td<>							
White Metal scalar *Visual NONE LIGHT Yellow Metal scalar *Visual NONE NONE Silicon ppm ASTM D5185m >20 2 Potassium ppm ASTM D5185m >20 2 Particles >4µm ASTM D7647 >5000 17125 Particles >5µm ASTM D7647 >100 4936 Particles >21µm ASTM D7647 >100 4 996 Particles >21µm ASTM D7647 >10 2 Particles >21µm ASTM D7647 >10 2 Particles >21µm ASTM D7647 >10 2 Particles >21µm ASTM D7647 >3 0 Solit scalar *Visual NONE NONE				>10	-		
Yellow Metal scalar *Visual NONE noe noe noe noe noe noe noe noe					-		
Silicon ppm ASTM D5185m >20 6 Potassium ppm ASTM D5185m >20 2 Water WC Method >0.1 NEG Particles >4µm ASTM D7647 >5000 A 17125 Particles >6µm ASTM D7647 >100 A 4936 Particles >14µm ASTM D7647 >100 A 4966 Particles >38µm ASTM D7647 >10 2 Particles >71µm ASTM D7647 >10 2 Particles >71µm ASTM D7647 >10 2 Solit scalar *Visual NONE NONE Sand/Dirt scalar *Visual NORML NORML Appearance scalar *Visual NORML NORML <					-		
Potassium ppm ASTM D5185m >20 2 Water WC Method >0.1 NEG Particles >4µm ASTM D7647 >5000 ▲ 17125 Particles >6µm ASTM D7647 >100 ▲ 4936 Particles >14µm ASTM D7647 >100 ▲ 496 Particles >21µm ASTM D7647 >10 2 Particles >38µm ASTM D7647 >10 2 Particles >71µm ASTM D7647 >3 0 Particles >71µm ASTM D7647 >3 0 Silt scalar *Visual NONE NONE Sand/Dirt scalar *Visual NORML NORML Appearance scalar *Visual NORML NORMI	Yellow Ivietal	scalar	"VISUAI	NONE	NONE		
Potassium ppm ASTM D5185m >20 2 Water WC Method >0.1 NEG Particles >4µm ASTM D7647 >5000 ▲ 17125 Particles >6µm ASTM D7647 >100 ▲ 4936 Particles >14µm ASTM D7647 >100 ▲ 496 Particles >21µm ASTM D7647 >10 2 Particles >38µm ASTM D7647 >10 2 Particles >71µm ASTM D7647 >3 0 Particles >71µm ASTM D7647 >3 0 Silt scalar *Visual NONE NONE Sand/Dirt scalar *Visual NORML NORML Appearance scalar *Visual NORML NORMI	Silicon	nnm	ASTM D5185m	<u>~20</u>	6		
Water WC Method >0.1 NEG Particles >4µm ASTM D7647 >5000 ▲ 17125 Particles >6µm ASTM D7647 >1300 ▲ 4936 Particles >14µm ASTM D7647 >160 ▲ 496 Particles >21µm ASTM D7647 >40 ▲ 121 Particles >38µm ASTM D7647 >10 2 Particles >71µm ASTM D7647 >3 0 Particles >71µm ASTM D7647 >3 0 Silt scalar *Visual NONE Silt scalar *Visual NONE Sand/Dirt scalar *Visual NORML NORML Appearance scalar *Visual NORML NORML Sodium ppm ASTM D5185m 0 Boron ppm					-		
Particles >4µm ASTM D7647 >5000 ▲ 17125 Particles >6µm ASTM D7647 >1300 ▲ 4936 Particles >14µm ASTM D7647 >160 ▲ 496 Particles >21µm ASTM D7647 >40 ▲ 121 Particles >38µm ASTM D7647 >3 0 Particles >71µm ASTM D7647 >3 0 Particles >71µm ASTM D7647 >3 0 Silt scalar *Visual NONE NONE Silt scalar *Visual NONE NONE Sand/Dirt scalar *Visual NORM NORML Appearance scalar *Visual NORM NORML Sodium ppm ASTM D5185m 0 <		ppiii			_		
Particles >6µm ASTM D7647 >1300 ▲ 4936 Particles >14µm ASTM D7647 >160 ▲ 496 Particles >21µm ASTM D7647 >40 ▲ 121 Particles >38µm ASTM D7647 >10 2 Particles >71µm ASTM D7647 >3 0 Particles >71µm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >19/17/14 ▲ 21/19/16 Silt scalar *Visual NONE Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NORML NORML Appearance scalar *Visual NORML NORML Godor scalar *Visual NORML NORML Boron ppm ASTM D5185m 0							
Particles >14µm ASTM D7647 >160 ▲ 496 Particles >21µm ASTM D7647 >40 ▲ 121 Particles >38µm ASTM D7647 >10 2 Particles >38µm ASTM D7647 >3 0 Particles >71µm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >19/17/14 21/19/16 Silt scalar *Visual NONE Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NORML NORML Appearance scalar *Visual NORML NORML Gdor scalar *Visual NORML NORML Boron ppm ASTM D5185m 0 Barium ppm ASTM D5185m 19							
Particles >21µm ASTM D7647 >40 ▲ 121 Particles >38µm ASTM D7647 >10 2 Particles >71µm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >19/17/14 ▲ 21/19/16 Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Sodium ppm ASTM D5185m 0 Boron ppm ASTM D5185m 0 Molybdenum ppm ASTM D5185m 194 Maganesium ppm ASTM D5185m							
Particles >38µm ASTM D7647 >10 2 Particles >71µm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >19/17/14 ▲ 21/19/16 Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Godor scalar *Visual NORML NORML Molybdenum ppm ASTM D5185m 0 Manganese ppm ASTM D5185m 19 Magnesium ppm ASTM D5185m 0 Manganese ppm							
Particles >71µm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >19/17/14 ▲ 21/19/16 Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Godor scalar *Visual >0.1 NEG Sodium ppm ASTM D5185m 0 Boron ppm ASTM D5185m 4 Molybdenum ppm ASTM D518							
Oil Cleanliness ISO 4406 (c) >19/17/14 21/19/16 Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual >0.1 NEG Sodium ppm ASTM D5185m 0 Boron ppm ASTM D5185m 29 Molybdenum ppm ASTM D5185m 0 Magnesium ppm					_		
Siltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*VisualNORMLNORMLSodiumppmASTM D5185m0BoronppmASTM D5185m29BariumppmASTM D5185m4MolybdenumppmASTM D5185m00MagnesiumppmASTM D5185m00PhosphorusppmASTM D5185m3027PhosphorusppmASTM D5185m684SulfurppmASTM D5185m730SulfurppmASTM D5185m7630Acid Number (AN)mg KOHgASTM D50450.76					-		
Debrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGSodiumppmASTM D5185m0BoronppmASTM D5185m29BariumppmASTM D5185m4MolybdenumppmASTM D5185m00MagnesiumppmASTM D5185m00MagnesiumppmASTM D5185m00PhosphorusppmASTM D5185m3027ZincppmASTM D5185m730SulfurppmASTM D5185m730Acid Number (AN)mg KOHgASTM D50450.76			()				
Sand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGSodiumppmASTM D5185m0BoronppmASTM D5185m29BariumppmASTM D5185m4MolybdenumppmASTM D5185m00ManganeseppmASTM D5185m00MagnesiumppmASTM D5185m00PhosphorusppmASTM D5185m3027ZincppmASTM D5185m684SulfurppmASTM D5185m730SulfurppmASTM D5185m0.766					-		
Appearance scalar *Visual NORML Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual >0.1 NEG Sodium ppm ASTM D5185m 0 Boron ppm ASTM D5185m 29 Barium ppm ASTM D5185m 4 Molybdenum ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 0 Phosphorus ppm ASTM D5185m 3027 Zinc ppm ASTM D5185m 684 Sulfur ppm ASTM D5185m 730 Sulfur ppm ASTM D5185m 0.76				-			
Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual >0.1 NEG Sodium ppm ASTM D5185m 0 Boron ppm ASTM D5185m 0 Barium ppm ASTM D5185m 4 Molybdenum ppm ASTM D5185m 19 Magnesium ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 0 Phosphorus ppm ASTM D5185m 3027 Zinc ppm ASTM D5185m 684 Sulfur ppm ASTM D5185m 730 Sulfur ppm ASTM D5185m 0.763					-		
Emulsified Water scalar *Visual >0.1 NEG Sodium ppm ASTM D5185m 0 Boron ppm ASTM D5185m 0 Barium ppm ASTM D5185m 4 Molybdenum ppm ASTM D5185m 19 Magnesium ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 94 Calcium ppm ASTM D5185m 3027 Phosphorus ppm ASTM D5185m 684 Zinc ppm ASTM D5185m 730 Sulfur ppm ASTM D5185m 7630 Acid Number (AN) mg KOHg ASTM D8045 0.76					-		
Sodium ppm ASTM D5185m 0 Boron ppm ASTM D5185m 29 Barium ppm ASTM D5185m 4 Molybdenum ppm ASTM D5185m 19 Manganese ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 94 Calcium ppm ASTM D5185m 3027 Phosphorus ppm ASTM D5185m 684 Zinc ppm ASTM D5185m 730 Sulfur ppm ASTM D5185m 7630 Acid Number (AN) mg KOHg ASTM D8045 0.76							
Boron ppm ASTM D5185m 29 Barium ppm ASTM D5185m 4 Molybdenum ppm ASTM D5185m 19 Manganese ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 94 Calcium ppm ASTM D5185m 3027 Phosphorus ppm ASTM D5185m 684 Zinc ppm ASTM D5185m 730 Sulfur ppm ASTM D5185m 7630 Acid Number (AN) mg KOHg ASTM D8045 0.76	Emulsified Water	scalar	*Visual	>0.1	NEG		
Boron ppm ASTM D5185m 29 Barium ppm ASTM D5185m 4 Molybdenum ppm ASTM D5185m 19 Manganese ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 94 Calcium ppm ASTM D5185m 3027 Phosphorus ppm ASTM D5185m 684 Zinc ppm ASTM D5185m 730 Sulfur ppm ASTM D5185m 7630 Acid Number (AN) mg KOHg ASTM D8045 0.76	Sodium	0000			0		
Barium ppm ASTM D5185m 4 Molybdenum ppm ASTM D5185m 19 Manganese ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 94 Calcium ppm ASTM D5185m 3027 Phosphorus ppm ASTM D5185m 684 Zinc ppm ASTM D5185m 730 Sulfur ppm ASTM D5185m 7630 Acid Number (AN) mg KOHg ASTM D8045 0.76							
Molybdenum ppm ASTM D5185m 19 Manganese ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 94 Calcium ppm ASTM D5185m 3027 Phosphorus ppm ASTM D5185m 684 Zinc ppm ASTM D5185m 730 Sulfur ppm ASTM D5185m 7630 Acid Number (AN) mg KOH/g ASTM D8045 0.76							
Manganese ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 94 Calcium ppm ASTM D5185m 3027 Phosphorus ppm ASTM D5185m 684 Zinc ppm ASTM D5185m 730 Sulfur ppm ASTM D5185m 7630 Acid Number (AN) mg KOH/g ASTM D8045 0.76							
Magnesium ppm ASTM D5185m 94 Calcium ppm ASTM D5185m 3027 Phosphorus ppm ASTM D5185m 684 Zinc ppm ASTM D5185m 730 Sulfur ppm ASTM D5185m 7630 Acid Number (AN) mg KOH/g ASTM D8045 0.76	-						
Calcium ppm ASTM D5185m 3027 Phosphorus ppm ASTM D5185m 684 Zinc ppm ASTM D5185m 730 Sulfur ppm ASTM D5185m 7630 Acid Number (AN) mg KOH/g ASTM D8045 0.76							
Phosphorus ppm ASTM D5185m 684 Zinc ppm ASTM D5185m 730 Sulfur ppm ASTM D5185m 7630 Acid Number (AN) mg KOH/g ASTM D8045 0.76	J						
Zinc ppm ASTM D5185m 730 Sulfur ppm ASTM D5185m 7630 Acid Number (AN) mg KOH/g ASTM D8045 0.76							
Sulfur ppm ASTM D5185m 7630 Acid Number (AN) mg KOH/g ASTM D8045 0.76							
Acid Number (AN) mg KOH/g ASTM D8045 0.76							
Visc @ 40°C cSt ASTM D445 49.6							
	Visc @ 40°C	cSt	ASTM D445		49.6		





Contact/Location: TODD LARK - VOLVO0090