

# WEAR NORMAL CONTAMINATION ABNORMAL FLUID CONDITION NORMAL

#### [380686] Wachine Id VOLVO L40B 1913099 Component Hydraulic System Fluid {not provided} (--- GAL)

RECOMMENDATION

We recommend you service the filters on this component. We recommend an early resample to monitor this condition. The fluid was not specified, however, a fluid match indicates that this fluid is SAE 10W Tractor TDH Fluid. Please confirm the oil type and grade, and specify the brand of the oil on your next sample.

### WEAR

All component wear rates are normal.

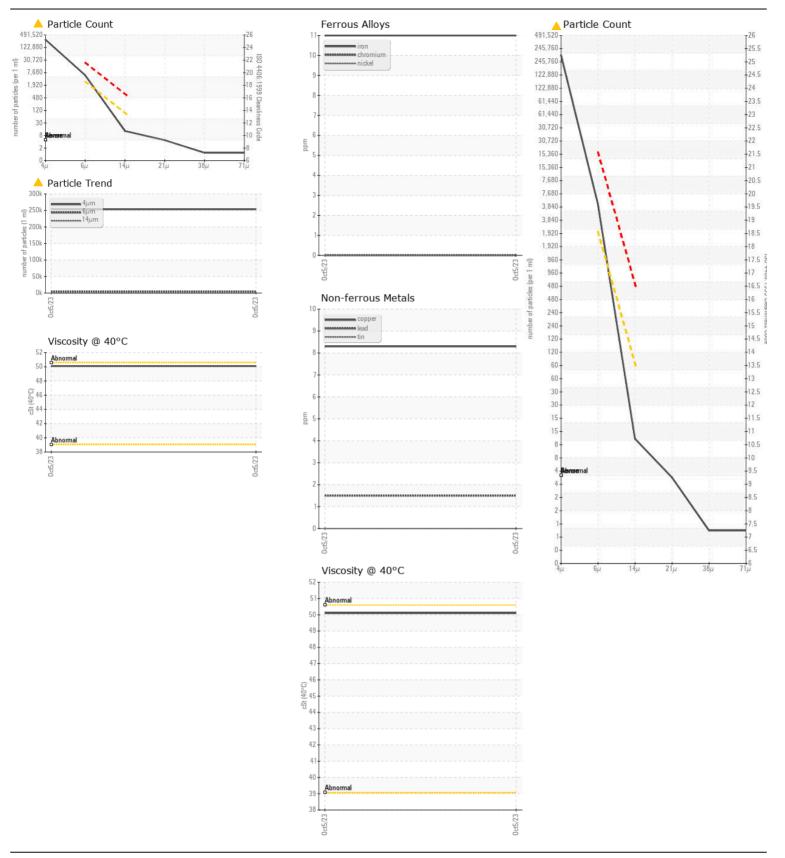
## CONTAMINATION

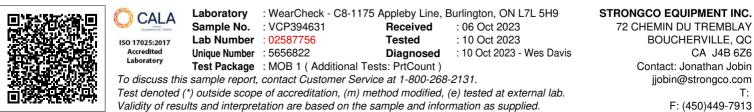
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

### FLUID CONDITION

The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Test     UOM     Method     Limit/Ab     Current     History1     History2       Sample Number     Client Info     05 Oct 2023         Machine Age     hrs     Client Info     05 Oct 2023         Oil Age     hrs     Client Info     0         Oil Age     hrs     Client Info     0         Oil Changed     Client Info     Not Changd         Filter Changed     Client Info     Not Changd         Sample Status      ABNORNAL         Iron     ppm     ASTMD5185(m) >20     0         Nickel     ppm     ASTMD5185(m) >20     1         Silver     ppm     ASTMD5185(m) >20     1         Aluminum     ppm     ASTMD5185(m) >20     0         Qanadium     ppm     ASTMD5185(m) >20     6							
Sample Date     Client Info     05 Oct 2023         Machine Age     hrs     Client Info     0         Oil Age     hrs     Client Info     0         Oil Changed     Client Info     Not Changd         Filter Age     hrs     Client Info     Not Changd         Sample Status     ASTM 05185(m)     >50     11         Iron     ppm     ASTM 05185(m)     >20     0         Nickel     ppm     ASTM 05185(m)     >20     0         Aluminum     ppm     ASTM 05185(m)     >20     1         Aluminum     ppm     ASTM 05185(m)     >20     2         Vanadium     ppm     ASTM 05185(m)     >20     0         Vanadium     ppm     ASTM 05185(m)     >20     6         Yellow Metal </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
Sample Date     Client Info     05 Oct 2023         Machine Age     hrs     Client Info     0         Oil Age     hrs     Client Info     0         Oil Changed     Client Info     Not Changd         Filter Age     hrs     Client Info     Not Changd         Sample Status     ASTM 05185(m)     >50     11         Iron     ppm     ASTM 05185(m)     >20     0         Nickel     ppm     ASTM 05185(m)     >20     0         Aluminum     ppm     ASTM 05185(m)     >20     1         Aluminum     ppm     ASTM 05185(m)     >20     2         Vanadium     ppm     ASTM 05185(m)     >20     0         Vanadium     ppm     ASTM 05185(m)     >20     6         Yellow Metal </th <th>Sample Number</th> <th></th> <th>Client Info</th> <th></th> <th>VCP394631</th> <th></th> <th></th>	Sample Number		Client Info		VCP394631		
Machine Age     hrs     Client Info     6250         Filter Age     hrs     Client Info     0         GOI Age     Client Info     Not Changd         Filter Changed     Client Info     Not Changd         Sample Status     ABNORMAL         Iron     ppm     ASTM D5185(m)     >50     11         Nickel     ppm     ASTM D5185(m)     >20     0         Aluminum     ppm     ASTM D5185(m)     >20     1         Aluminum     ppm     ASTM D5185(m)     >20     1         Auminum     ppm     ASTM D5185(m)     >20     0         Vanadum     ppm     ASTM D5185(m)     >20     0         Vanadum     ppm     ASTM D5185(m)     >20     3         Vanadum     ppm     <			Client Info		05 Oct 2023		
Oil Age     hrs     Client Info     0         Filter Age     hrs     Client Info     Not Changd         Oil Changed     Client Info     Not Changd          Sample Status     Client Info     Not Changd          Iron     ppm     ASTM D5185(m)     >50     11         Chromium     ppm     ASTM D5185(m)     >20     0         Nickel     ppm     ASTM D5185(m)     >20     1         Aluminum     ppm     ASTM D5185(m)     >20     1         Lead     ppm     ASTM D5185(m)     >20     1         Vanadium     ppm     ASTM D5185(m)     >20     0         Vanadium     ppm     ASTM D5185(m)     >20     6         Vanadium     ppm     ASTM D764     >20     3		hrs	Client Info		6250		
Filter Age     hrs     Client Info     0         Gil Changed     Client Info     Not Changd         Filter Changed     Client Info     Not Changd         Sample Status     ABNORMAL         Iron     ppm     ASTM D5185(m)     >50     11         Chromium     ppm     ASTM D5185(m)     >10     0         Nickel     ppm     ASTM D5185(m)     >20     1         Silver     ppm     ASTM D5185(m)     >20     1         Aluminum     ppm     ASTM D5185(m)     >20     2         Copper     ppm     ASTM D5185(m)     >20     0         Vanadium     ppm     ASTM D5185(m)     >20     3         Yellow Metal     scalar     Visual*     NONE         Yellow Metal     scalar	-						
Oil Changed     Client Info     Not Changd         Filter Changed     Client Info     Not Changd         Sample Status     ABNORMAL         Iron     ppm     ASTM D5185(m)     >50     11        Iron     ppm     ASTM D5185(m)     >20     0        Nickel     ppm     ASTM D5185(m)     >20     0        Aluminum     ppm     ASTM D5185(m)     >20     1        Aluminum     ppm     ASTM D5185(m)     >20     1        Vanadium     ppm     ASTM D5185(m)     >20     1        Vanadium     ppm     ASTM D5185(m)     >20     0        Vanadium     ppm     ASTM D5185(m)     >20     6        Vanadium     ppm     ASTM D5185(m)     >20     6        Vanadium     ppm     ASTM D5185(m)     >20     6        Vanadium     ppm	-		Client Info		-		
Filter Changed     Client Info     Not Changed         Sample Status     ABNORMA         Iron     ppm     ASTM D5185(m) >50     11         Iron     ppm     ASTM D5185(m) >20     0         Nickel     ppm     ASTM D5185(m) >20     0         Nickel     ppm     ASTM D5185(m) >20     0         Aluminum     ppm     ASTM D5185(m) >20     1         Lead     ppm     ASTM D5185(m) >20     0         Vanadium     ppm     ASTM D5185(m) >20     0         Vanadium     ppm     ASTM D5185(m) >20     0         Vanadium     ppm     ASTM D5185(m) >20     6         Yellow Metal     scalar     Visual*     NONE         Yellow Metal     scalar     Visual*     NONE	0				-		
Sample Status     ABNORMAL         Iron     ppm     ASTM D5185(m) >50     11         Chromium     ppm     ASTM D5185(m) >10     0         Nickel     ppm     ASTM D5185(m) >10     0         Titanium     ppm     ASTM D5185(m) >20     1         Aluminum     ppm     ASTM D5185(m) >20     1         Lead     ppm     ASTM D5185(m) >20     0         Copper     ppm     ASTM D5185(m) >20     0         Vanadium     ppm     ASTM D5185(m) >20     0         Vanadium     ppm     ASTM D5185(m) >20     6         Vanadium     ppm     ASTM D5185(m) >20     3         Yellow Metal     scalar     Visual*     NONE	-				•		
Iron     ppm     ASTM D5185(m)     >50     11         Chromium     ppm     ASTM D5185(m)     >20     0         Nickel     ppm     ASTM D5185(m)     >20     0         Titanium     ppm     ASTM D5185(m)     <0         Aluminum     ppm     ASTM D5185(m)     >20     1         Aluminum     ppm     ASTM D5185(m)     >20     1         Lead     ppm     ASTM D5185(m)     >20     0         Vanadium     ppm     ASTM D5185(m)     >20     0         Vanadium     ppm     ASTM D5185(m)     >20     0         Vanadium     ppm     ASTM D5185(m)     >20     6         Vanadium     ppm     ASTM D5185(m)     >20     6         Vanadium     ppm     ASTM D5185	-		Onoric into		-		
Chromium     ppm     ASTM D5185(m)     >20     0         Nickel     ppm     ASTM D5185(m)     0         Silver     ppm     ASTM D5185(m)     <1         Aluminum     ppm     ASTM D5185(m)     >20     1         Lead     ppm     ASTM D5185(m)     >20     2         Copper     ppm     ASTM D5185(m)     >20     0         Vanadium     ppm     ASTM D5185(m)     >20     3         Veltassium     ppm     ASTM D5185(m)     >20     3         Silicon     ppm     ASTM D5185(m) <td< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th></td<>							
Nickel     ppm     ASTM D5185(m)     >10     0         Titanium     ppm     ASTM D5185(m)           Silver     ppm     ASTM D5185(m)     >20     1         Auminum     ppm     ASTM D5185(m)     >20     2         Lead     ppm     ASTM D5185(m)     >20     0         Copper     ppm     ASTM D5185(m)     >20     0         Vanadium     ppm     ASTM D5185(m)     >20     0         Vanadium     ppm     ASTM D5185(m)     >20     0         Vanadium     ppm     ASTM D5185(m)     >20     3         Vanadium     ppm     ASTM D5185(m)     >20     3         Yellow Metal     scalar     Visual*     NONE     NONE         Patricles >4µm     ASTM D7	Iron	ppm	ASTM D5185(m)	>50	11		
Titanium     ppm     ASTM D5185(m)     C         Aluminum     ppm     ASTM D5185(m)     >20     1         Aluminum     ppm     ASTM D5185(m)     >20     2         Lead     ppm     ASTM D5185(m)     >20     2         Copper     ppm     ASTM D5185(m)     >20     0         Vanadium     ppm     ASTM D5185(m)     >20     0         White Metal     scalar     Visual*     NONE     NONE         Yellow Metal     scalar     Visual*     NONE     NONE         Potassium     ppm     ASTM D5185(m)     >20     3         Particles >4µm     ASTM D7647     >80     11         Particles >54µm     ASTM D7647     >20     4         Particles >71µm     ASTM D7647     >3 <t< th=""><th>Chromium</th><th>ppm</th><th>ASTM D5185(m)</th><th>&gt;20</th><th>0</th><th></th><th></th></t<>	Chromium	ppm	ASTM D5185(m)	>20	0		
Silver     ppm     ASTM D5185(m)     <1	Nickel	ppm	ASTM D5185(m)	>10	0		
Aluminum     ppm     ASTM D5185(m)     >20     1         Lead     ppm     ASTM D5185(m)     >20     2         Copper     ppm     ASTM D5185(m)     >150     8         Vanadium     ppm     ASTM D5185(m)     >20     0         White Metal     scalar     Visual*     NONE     NONE         Yellow Metal     scalar     Visual*     NONE     NONE         Silicon     ppm     ASTM D5185(m)     >20     3         Yellow Metal     scalar     Visual*     NONE     NONE         Paticles >4µm     ASTM D7647     >2500     A 5076         Particles >6µm     ASTM D7647     >20     4         Particles >6µm     ASTM D7647     >3     1         Particles >6µm     ASTM D7647     >3	Titanium	ppm	ASTM D5185(m)		0		
Aluminum     ppm     ASTM D5185(m)     >20     1         Lead     ppm     ASTM D5185(m)     >20     2         Copper     ppm     ASTM D5185(m)     >150     8         Vanadium     ppm     ASTM D5185(m)     >20     0         White Metal     scalar     Visual*     NONE     NONE         Yellow Metal     scalar     Visual*     NONE     NONE         Silicon     ppm     ASTM D5185(m)     >20     3         Vater     WC Method     >0.1     NEG         Particles >4µm     ASTM D7647     2500     A 5076         Particles >5µm     ASTM D7647     >80     11         Particles >4µm     ASTM D7647     >4     1         Particles >5µm     ASTM D7647     >3     1	Silver		ASTM D5185(m)		<1		
Lead     ppm     ASTM D5185(m)     >20     2         Copper     ppm     ASTM D5185(m)     >150     8         Vanadium     ppm     ASTM D5185(m)     >20     0         White Metal     scalar     Visual*     NONE     NONE         Yellow Metal     scalar     Visual*     NONE     NONE         Silicon     ppm     ASTM D5185(m)     >20     3         Potassium     ppm     ASTM D5185(m)     >20     3         Particles >4µm     ASTM D7647     >253532          Particles >4µm     ASTM D7647     >80     11         Particles >71µm     ASTM D7647     >80     11         Particles >71µm     ASTM D7647     >3     1         Silt     scalar     Visual*     NONE <th>Aluminum</th> <th></th> <th></th> <th>&gt;20</th> <th>1</th> <th></th> <th></th>	Aluminum			>20	1		
Copper     ppm     ASTM D5185(m)     >150     8         Tin     ppm     ASTM D5185(m)     >20     0         Vanadium     ppm     ASTM D5185(m)     0         White Metal     scalar     Visual*     NONE     NONE        Yellow Metal     scalar     Visual*     NONE     NONE        Silicon     ppm     ASTM D5185(m)<>20     6         Potassium     pm     ASTM D5185(m)<>20     3         Paticles >4µm     ASTM D7647     253532         Particles >6µm     ASTM D7647     >200     4         Particles >6µm     ASTM D7647     >80     11         Particles >38µm     ASTM D7647     >4     1         Particles >21µm     ASTM D7647     >3     1         Sol Loleanliness     I	Lead			>20	2		
Tin     ppm     ASTM D5185(m)     >20     0         Vanadium     ppm     ASTM D5185(m)     0         White Metal     scalar     Visual*     NONE         Yellow Metal     scalar     Visual*     NONE         Silicon     ppm     ASTM D5185(m)     >20     6         Potassium     ppm     ASTM D5185(m)     >20     3         Particles >4µm     ASTM D7647     253532          Particles >6µm     ASTM D7647     >20     4         Particles >4µm     ASTM D7647     >20     4         Particles >38µm     ASTM D7647     >3     1         Particles >71µm     ASTM D7647     >3     1         Silt     scalar     Visual*     NONE     NONE        Sodium			( )				
Vanadium     ppm     ASTM D5185(m)     0         White Metal     scalar     Visual*     NONE     NONE         Yellow Metal     scalar     Visual*     NONE     NONE         Silicon     ppm     ASTM D5185(m)     >20     3         Potassium     ppm     ASTM D5185(m)     >20     3         Paticles >4µm     ASTM D5185(m)     >20     3         Particles >4µm     ASTM D7647     253532          Particles >4µm     ASTM D7647     >80     11         Particles >4µm     ASTM D7647     >80     11         Particles >31µm     ASTM D7647     >3     1         Particles >71µm     ASTM D7647     >3     1         Silt     scalar     Visual*     NONE     NONE					0		
White Metal     scalar     Visual*     NONE     NONE         Yellow Metal     scalar     Visual*     NONE     NONE         Silicon     ppm     ASTM D5185(m)     >20     3         Potassium     ppm     ASTM D5185(m)     >20     3         Water     WC Method     >0.1     NEG         Particles >4µm     ASTM D7647     253532         Particles >6µm     ASTM D7647     >2500     ▲     5076        Particles >14µm     ASTM D7647     >20     4         Particles >71µm     ASTM D7647     >3     1         Particles >71µm     ASTM D7647     >3     1         Particles >71µm     ASTM D7647     >3     1         Solit     scalar     Visual*     NONE     NONE					-		
Yellow Metal     scalar     Visual*     NONE         Silicon     ppm     ASTM D5185(m)     >20     3         Potassium     ppm     ASTM D5185(m)     >20     3         Water     WC Method     >0.1     NEG         Particles >4µm     ASTM D7647     253532         Particles >6µm     ASTM D7647     >200     ▲ 5076         Particles >6µm     ASTM D7647     >20     4         Particles >14µm     ASTM D7647     >20     4         Particles >38µm     ASTM D7647     >3     1         Particles >71µm     ASTM D7647     >3     1         Silt     scalar     Visual*     NONE     NONE         Silt     scalar     Visual*     NORE     NORE         Appearance				NONE	-		
Silicon     ppm     ASTM D5185(m)     >20     6         Potassium     ppm     ASTM D5185(m)     >20     3         Water     WC Method     >0.1     NEG         Particles >4µm     ASTM D7647     253532         Particles >6µm     ASTM D7647     >200     A     5076        Particles >6µm     ASTM D7647     >20     4         Particles >1µm     ASTM D7647     >20     4         Particles >38µm     ASTM D7647     >20     4         Particles >1µm     ASTM D7647     >3     1         Particles >71µm     ASTM D7647     >3     1         Silt     scalar     Visual*     NONE     NONE         Silt     scalar     Visual*     NORM     NORML         Appearance					-		
Potassium     ppm     ASTM D5185(m)     >20     3         Water     WC Method     >0.1     NEG         Particles >4µm     ASTM D7647     253532         Particles >6µm     ASTM D7647     >200     ▲ 5076         Particles >14µm     ASTM D7647     >20     4         Particles >21µm     ASTM D7647     >20     4         Particles >21µm     ASTM D7647     >4     1         Particles >38µm     ASTM D7647     >4     1         Particles >31µm     ASTM D7647     >3     1         Particles >38µm     ASTM D7647     >3     1         Particles >21µm     ASTM D7647     >3     1         Oil Cleanliness     ISO 4406 (c)     >-/18/13     NORE         Sand/Dirt     scalar		Jouran					
Water     WC Method     >0.1     NEG        Particles >4µm     ASTM D7647     253532         Particles >6µm     ASTM D7647     >2500     5076         Particles >14µm     ASTM D7647     >20     4         Particles >21µm     ASTM D7647     >20     4         Particles >38µm     ASTM D7647     >20     4         Particles >38µm     ASTM D7647     >4     1         Particles >71µm     ASTM D7647     >3     1         Oil Cleanliness     ISO 4406 (c)     >-/18/13     25/20/11         Silt     scalar     Visual*     NONE     NONE         Debris     scalar     Visual*     NONE     NORE         Appearance     scalar     Visual*     NORML     NORML         Odor     scalar	Silicon	ppm	ASTM D5185(m)	>20	6		
Particles >4μm     ASTM D7647     253532         Particles >6μm     ASTM D7647     >2500     ▲ 5076         Particles >14μm     ASTM D7647     >20     4         Particles >14μm     ASTM D7647     >20     4         Particles >21μm     ASTM D7647     >20     4         Particles >38µm     ASTM D7647     >4     1         Particles >38µm     ASTM D7647     >3     1         Particles >71µm     ASTM D7647     >3     1         Oil Cleanliness     ISO 4406 (c)     >/18/13     ▲ 25/20/11         Silt     scalar     Visual*     NONE     NONE         Sand/Dirt     scalar     Visual*     NORML     NORML         Appearance     scalar     Visual*     NORML     NORML	Potassium	ppm	ASTM D5185(m)	>20	3		
Particles >6µm     ASTM D7647     >2500     ▲ 5076         Particles >14µm     ASTM D7647     >80     11         Particles >21µm     ASTM D7647     >20     4         Particles >38µm     ASTM D7647     >4     1         Particles >71µm     ASTM D7647     >3     1         Oil Cleanliness     ISO 4406 (c)     >-/18/13     ▲ 25/20/11         Silt     scalar     Visual*     NONE     NONE         Debris     scalar     Visual*     NONE     NONE         Appearance     scalar     Visual*     NORM     NORML         Odor     scalar     Visual*     NORM     NORML         Sodium     ppm     ASTM D5185(m)     6         Boron     ppm     ASTM D5185(m)     0	Water		WC Method	>0.1	NEG		
Particles >14µm     ASTM D7647     >800     11        Particles >21µm     ASTM D7647     >20     4        Particles >38µm     ASTM D7647     >4     1        Particles >38µm     ASTM D7647     >3     1        Particles >71µm     ASTM D7647     >3     1        Oil Cleanliness     ISO 4406 (c)     >-/18/13     ▲ 25/20/11        Silt     scalar     Visual*     NONE         Debris     scalar     Visual*     NONE     NONE         Sand/Dirt     scalar     Visual*     NORE         Appearance     scalar     Visual*     NORM     NORML         Odor     scalar     Visual*     NORM     NORML         Sodium     ppm     ASTM D5185(m)     6         Boron     ppm     ASTM D5185(m)     61 </th <th>Particles &gt;4µm</th> <th></th> <th>ASTM D7647</th> <th></th> <th>253532</th> <th></th> <th></th>	Particles >4µm		ASTM D7647		253532		
Particles >21µm     ASTM D7647     >20     4        Particles >38µm     ASTM D7647     >4     1        Particles >38µm     ASTM D7647     >3     1        Particles >71µm     ASTM D7647     >3     1        Oil Cleanliness     ISO 4406 (c)     >-/18/13     ▲ 25/20/11        Silt     scalar     Visual*     NONE     NONE        Debris     scalar     Visual*     NONE     NONE        Sand/Dirt     scalar     Visual*     NORML     NORML        Appearance     scalar     Visual*     NORML     NORML        Odor     scalar     Visual*     NORML     NORML        Sodium     ppm     ASTM D5185(m)     6         Boron     ppm     ASTM D5185(m)     <6         Molybdenum     ppm     ASTM D5185(m)     <6         Maganese	Particles >6µm		ASTM D7647	>2500	<b>5076</b>		
Particles >38µm     ASTM D7647     >4     1         Particles >71µm     ASTM D7647     >3     1         Oil Cleanliness     ISO 4406 (c)     >-/18/13     ▲ 25/20/11         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         Molybdenum     ppm     ASTM D5185(m)     6         Barium     ppm     ASTM D5185(m)     <6         Molybdenum     ppm     ASTM D5185(m)     <6         Maganese     ppm     ASTM D5185(m)     0 </th <th>Particles &gt;14µm</th> <th></th> <th>ASTM D7647</th> <th>&gt;80</th> <th>11</th> <th></th> <th></th>	Particles >14µm		ASTM D7647	>80	11		
Particles >71µm     ASTM D7647     >3     1        Oil Cleanliness     ISO 4406 (c)     >-/18/13     ▲ 25/20/11         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         Sodium     ppm     ASTM D5185(m)     6         Boron     ppm     ASTM D5185(m)     66         Molybdenum     ppm     ASTM D5185(m)     0         Maganese     ppm     ASTM D5185(m)     2528	Particles >21µm		ASTM D7647	>20	4		
Oil Cleanliness     ISO 4406 (c)     >/18/13     25/20/11         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 D5185(m)     6          Boron     ppm     ASTM D5185(m)     66          Molybdenum     ppm     ASTM D5185(m)     0          Maganesium	Particles >38µm		ASTM D7647	>4	1		
Oil Cleanliness     ISO 4406 (c)     >/18/13     25/20/11         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         Cdor     scalar     Visual*     NORML     NORML         Emulsified Water     scalar     Visual*     NORML     NORML         Sodium     ppm     ASTM D5185(m)     6          Boron     ppm     ASTM D5185(m)      66         Molybdenum     ppm     ASTM D5185(m)     0         Magnesium     ppm <td< th=""><th>Particles &gt;71µm</th><th></th><th>ASTM D7647</th><th>&gt;3</th><th>1</th><th></th><th></th></td<>	Particles >71µm		ASTM D7647	>3	1		
SiltscalarVisual*NONENONEDebrisscalarVisual*NONENONESand/DirtscalarVisual*NONENONEAppearancescalarVisual*NORMLNORMLOdorscalarVisual*NORMLNORMLCdorscalarVisual*NORMLNORMLEmulsified WaterscalarVisual*NORMLNORMLSodiumppmASTM D5185(m)6BoronppmASTM D5185(m)60BariumppmASTM D5185(m)66MolybdenumppmASTM D5185(m)6MagnesiumppmASTM D5185(m)0MagnesiumppmASTM D5185(m)2528PhosphorusppmASTM D5185(m)932SulfurppmASTM D5185(m)1120			ISO 4406 (c)	>/18/13	<u> </u>		
Sand/DirtscalarVisual*NONENONEAppearancescalarVisual*NORMLNORMLOdorscalarVisual*NORMLNORMLEmulsified WaterscalarVisual*>0.1NEGSodiumppmASTM D5185(m)6BoronppmASTM D5185(m)66BariumppmASTM D5185(m)61MolybdenumppmASTM D5185(m)6ManganeseppmASTM D5185(m)0MagnesiumppmASTM D5185(m)40PhosphorusppmASTM D5185(m)932ZincppmASTM D5185(m)1120SulfurppmASTM D5185(m)Astm D5185(m)SulfurppmASTM D5185(m)SulfurppmASTM D5185(m)	Silt	scalar		NONE	NONE		
Sand/DirtscalarVisual*NONENONEAppearancescalarVisual*NORMLNORMLOdorscalarVisual*NORMLNORMLEmulsified WaterscalarVisual*>0.1NEGSodiumppmASTM D5185(m)6BoronppmASTM D5185(m)66BariumppmASTM D5185(m)61MolybdenumppmASTM D5185(m)6ManganeseppmASTM D5185(m)0MagnesiumppmASTM D5185(m)40PhosphorusppmASTM D5185(m)932ZincppmASTM D5185(m)1120SulfurppmASTM D5185(m)Astm D5185(m)SulfurppmASTM D5185(m)SulfurppmASTM D5185(m)	Debris	scalar	Visual*	NONE	NONE		
OdorscalarVisual*NORMLNORMLEmulsified WaterscalarVisual*>0.1NEGSodiumppmASTM D5185(m)66BoronppmASTM D5185(m)660BariumppmASTM D5185(m)<66MolybdenumppmASTM D5185(m)6ManganeseppmASTM D5185(m)6MagnesiumppmASTM D5185(m)00CalciumppmASTM D5185(m)400PhosphorusppmASTM D5185(m)932ZincppmASTM D5185(m)1120SulfurppmASTM D5185(m)12547	Sand/Dirt	scalar	Visual*	NONE	NONE		
OdorscalarVisual*NORMLNORMLEmulsified WaterscalarVisual*>0.1NEGSodiumppmASTM D5185(m)66BoronppmASTM D5185(m)660BariumppmASTM D5185(m)<66MolybdenumppmASTM D5185(m)6ManganeseppmASTM D5185(m)6MagnesiumppmASTM D5185(m)00CalciumppmASTM D5185(m)400PhosphorusppmASTM D5185(m)932ZincppmASTM D5185(m)1120SulfurppmASTM D5185(m)12547	Appearance	scalar	Visual*	NORML	NORML		
Sodium     ppm     ASTM D5185(m)     6        Boron     ppm     ASTM D5185(m)     60        Barium     ppm     ASTM D5185(m)     61        Barium     ppm     ASTM D5185(m)     <1        Molybdenum     ppm     ASTM D5185(m)     6        Manganese     ppm     ASTM D5185(m)     0        Magnesium     ppm     ASTM D5185(m)     40        Calcium     ppm     ASTM D5185(m)     2528        Phosphorus     ppm     ASTM D5185(m)     932        Zinc     ppm     ASTM D5185(m)     1120        Sulfur     ppm     ASTM D5185(m)     2547		scalar	Visual*	NORML	NORML		
Boron     ppm     ASTM D5185(m)     60        Barium     ppm     ASTM D5185(m)     <1        Molybdenum     ppm     ASTM D5185(m)     6        Manganese     ppm     ASTM D5185(m)     0        Magnesium     ppm     ASTM D5185(m)     40        Calcium     ppm     ASTM D5185(m)     2528        Phosphorus     ppm     ASTM D5185(m)     932        Zinc     ppm     ASTM D5185(m)     1120        Sulfur     ppm     ASTM D5185(m)     2547	Emulsified Water	scalar	Visual*	>0.1	NEG		
Boron     ppm     ASTM D5185(m)     60        Barium     ppm     ASTM D5185(m)     <1        Molybdenum     ppm     ASTM D5185(m)     6        Manganese     ppm     ASTM D5185(m)     0        Magnesium     ppm     ASTM D5185(m)     40        Calcium     ppm     ASTM D5185(m)     2528        Phosphorus     ppm     ASTM D5185(m)     932        Zinc     ppm     ASTM D5185(m)     1120        Sulfur     ppm     ASTM D5185(m)     2547							
Barium     ppm     ASTM D5185(m)     <1	Sodium	ppm	ASTM D5185(m)				
Molybdenum     ppm     ASTM D5185(m)     6        Manganese     ppm     ASTM D5185(m)     0        Magnesium     ppm     ASTM D5185(m)     0        Magnesium     ppm     ASTM D5185(m)     40        Calcium     ppm     ASTM D5185(m)     2528        Phosphorus     ppm     ASTM D5185(m)     932        Zinc     ppm     ASTM D5185(m)     1120        Sulfur     ppm     ASTM D5185(m)     2547	Boron	ppm	ASTM D5185(m)		60		
Manganese     ppm     ASTM D5185(m)     0        Magnesium     ppm     ASTM D5185(m)     40         Calcium     ppm     ASTM D5185(m)     2528         Phosphorus     ppm     ASTM D5185(m)     932         Zinc     ppm     ASTM D5185(m)     1120         Sulfur     ppm     ASTM D5185(m)     2547		ppm	( )				
Magnesium     ppm     ASTM D5185(m)     40         Calcium     ppm     ASTM D5185(m)     2528         Phosphorus     ppm     ASTM D5185(m)     932         Zinc     ppm     ASTM D5185(m)     1120         Sulfur     ppm     ASTM D5185(m)     2547	•	ppm	( /		6		
Calcium     ppm     ASTM D5185(m)     2528        Phosphorus     ppm     ASTM D5185(m)     932        Zinc     ppm     ASTM D5185(m)     1120        Sulfur     ppm     ASTM D5185(m)     2547	Manganese	ppm			0		
Phosphorus     ppm     ASTM D5185(m)     932         Zinc     ppm     ASTM D5185(m)     1120         Sulfur     ppm     ASTM D5185(m)     2547	Magnesium	ppm	ASTM D5185(m)		40		
Zinc     ppm     ASTM D5185(m)     1120         Sulfur     ppm     ASTM D5185(m)     2547	Calcium	ppm	ASTM D5185(m)		2528		
Sulfur     ppm     ASTM D5185(m)     2547	Phosphorus	ppm			932		
	Zinc	ppm	ASTM D5185(m)		1120		
Visc @ 40°C cSt ASTM D7279(m) 50.1	Sulfur	ppm	ASTM D5185(m)		2547		
	Visc @ 40°C	cSt	ASTM D7279(m)		50.1		





Contact/Location: Jonathan Jobin - SHEBOU