

WEAR NORMAL CONTAMINATION ABNORMAL FLUID CONDITION NORMAL

Machine Id **14052** Component **Upper Bearing** Fluid **MOBIL SHC 632 (--- GAL)**

RECOMMENDATION

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

WEAR

All component wear rates are normal.

CONTAMINATION

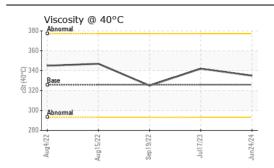
There is a moderate amount of visible silt present in the sample.

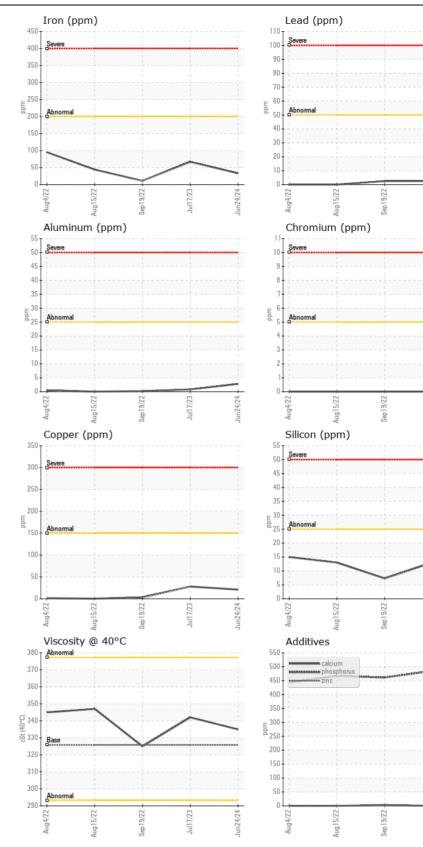
FLUID CONDITION

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

Sample DateClient Info24 Jun 202417 Jul 202319 Sep 2022Machine AgehrsClient Info001797Oil AgehrsClient Info022201797Filter AgehrsClient Info000Oil ChangedClient InfoImagedChangedNr/ANr/AFilter ChangedClient InfoImagedN/AN/AN/ASample StatusClient InfoImagedN/AN/ANORMALIronppmASTM D5185m>2003367711ChromiumppmASTM D5185m>5<100NickelppmASTM D5185m>5<100SilverppmASTM D5185m>5<100AuminumppmASTM D5185m>503<22CopperppmASTM D5185m>503<22CopperppmASTM D5185m>1021<20VanadiumppmASTM D5185m>1021<10White Metalscalar*VisualNONENONENONENONESiliconppmASTM D5185m>202<10WaterwcMathalscalar*VisualNONENONENONESiliconppmASTM D5185m>202<10WaterwcMathalscalar*VisualNONENONENONE							
Sample DateClient Info24 Jun 202417 Jul 202319 Sep 2022Machine AgehrsClient Info001797Oil AgehrsClient Info022201797Filter AgehrsClient Info000Oil ChangedClient InfoChangedChangedNot ChangedFilter ChangedClient InfoN/ANANASample StatusClient InfoN/ANANASample StatusSample StatusSample StatusSample Status00IronppmASTM D5185>200336711ChromiumppmASTM D5185Sample Status000NickelppmASTM D5185>50G00SilverppmASTM D5185>503<1<1LeadppmASTM D5185>503<1<1LeadppmASTM D5185>503<10VanadiumppmASTM D5185>1021283Yellow Metalscalar"VisualNONENONENONEVellow Metalscalar"VisualNONENONENONESiliconppmASTM D5185>202<10Vellow Metalscalar"VisualNONENONENONESiliconppmASTM D5185>202<10Vellow Metalscalar"VisualNONE <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 Machine AgehrsClient Info001797Oil Age HrsClient Info022201797Filter AgehrsClient InfoA00Oil ChangedClient InfoMAN/AN/AFilter ChangedQClient InfoN/AN/AN/ASample StatusClient InfoN/AN/AN/AIronppmASTM D5185m>200336711ChromiumppmASTM D5185m>50<100NickelppmASTM D5185m>55Q00SilverppmASTM D5185m>5031<1<1LeadppmASTM D5185m>5033222CopperppmASTM D5185m>51021220VanadiumppmASTM D5185m>5102120VanadiumppmASTM D5185m>5102120VanadiumppmASTM D5185m>5253011Yellow Metalscalar'VisualNONENONENONENONESiliconppmASTM D5185m>2502<10VanadiumppmASTM D5185m>25031<10VanadiumppmASTM D5185m>25091337PotassiumppmASTM D5185m>25091337PotassiumppmASTM D5185m<	Sample Number		Client Info		WC0729168	WC0757510	WC0729175
Oil Age Filter AgehrsClient Info022201797Filter AgehrsClient Info000Oil ChangedClient InfoN/AN/AN/ASample StatusClient InfoN/AN/AN/ASample StatusSASTM D5185m>200336711IronppmASTM D5185m>200336711ChromiumppmASTM D5185m>50000NickelppmASTM D5185m554<100SilverppmASTM D5185m>503<1<1LeadppmASTM D5185m>50322CopperppmASTM D5185m>50322CopperppmASTM D5185m>10200White Metalscalar*VisualNONENONENONENONESiliconppmASTM D5185m>20210VatterVisualNONENONENONENONENONESiliconppmASTM D5185m>20210VatterVisualNONENONENONENONENONESiliconppmASTM D5185m>202<10VatterVisualNONENONENONENONENONESiliconppmASTM D5185m>20110QualScalar*Visual	Sample Date		Client Info		24 Jun 2024	17 Jul 2023	19 Sep 2022
Filter Age Oil ChangedhrsClient Info000Oil ChangedClient InfoChangedNAANAC hangedFilter ChangedClient InfoN/AN/AN/ASample StatusXABNORMALNORMALNORMALIronppmASTM D5185m>50<100NickelppmASTM D5185m>50<100NickelppmASTM D5185m>50<100TitaniumppmASTM D5185m>503<1<1LeadppmASTM D5185m>503<22CopperppmASTM D5185m>50322CopperppmASTM D5185m>10200VanadiumppmASTM D5185m>10200Vellow Metalscalar*VisualNONENONENONENONEVellow Metalscalar*VisualNONENONENONENONENONESiliconppmASTM D5185m>202<100Vellow Metalscalar*VisualNONENONENONENONENONESiliconppmASTM D5185m>202<100SiliconppmASTM D5185m>202<10Vellow Metalscalar*VisualNONENONENONENONESodiumppmASTM D5185m>202 <th>Machine Age</th> <th>hrs</th> <th>Client Info</th> <th></th> <th>0</th> <th>0</th> <th>1797</th>	Machine Age	hrs	Client Info		0	0	1797
Oil Changed Filter ChangedClient InfoChanged N/ANor MASample StatusClient InfoN/AN/AN/AIronppmASTM D5185m ASTM D5185m PpmS200336711ChromiumppmASTM D5185m ASTM D5185m PpmS5000NickelppmASTM D5185m ASTM D5185m S5S0000SilverppmASTM D5185m ASTM D5185m S5S0000AluminumppmASTM D5185m ASTM D5185mS503<	Oil Age	hrs	Client Info		0	2220	1797
Filter Changed Sample StatusClient InfoN/AN/AN/AN/ASample StatusClient InfoN/AN/AN/AN/AIronppmASTM D5185m>200336711ChromiumppmASTM D5185m>5000NickelppmASTM D5185m>5000NickelppmASTM D5185m>5000SilverppmASTM D5185m>53<1<1LeadppmASTM D5185m>50322CopperppmASTM D5185m>1021283TinppmASTM D5185m>10220VanadiumppmASTM D5185m>10220VanadiumppmASTM D5185m>10220VanadiumppmASTM D5185m>10220VanadiumppmASTM D5185m>202<10VanadiumppmASTM D5185m>202<10Vellow Metalscalar*VisualNONENONENONENONESiliconppmASTM D5185m>202<10WaterWC Method>0.1NORENONENONENONESiliconppmASTM D5185m>202<10Bard/D1tscalar*VisualNONENONENONENONE	Filter Age	hrs	Client Info		0	0	0
Sample StatusABNORMALNORMALNORMALIronppmASTM D5185m>200336711ChromiumppmASTM D5185m>5000NickelppmASTM D5185m>5000TitaniumppmASTM D5185m>5000SilverppmASTM D5185m>5<100AluminumppmASTM D5185m>253<1<1LeadppmASTM D5185m>1021283TinppmASTM D5185m>1021283TinppmASTM D5185m>1021283TinppmASTM D5185m>10220VanaduumppmASTM D5185m>10220VanaduumppmASTM D5185m>10220VanaduumppmASTM D5185m>202<10Venduetscalar*VisualNONENONENONENONESiliconppmASTM D5185m>202<10WaterVisualNONENONENONENONENONESiliconppmASTM D5185m>202<10Debrisscalar*VisualNONENONENONENONESiliconscalar*VisualNORNORENONENONEAppearancescalar*Visual <th>Oil Changed</th> <th></th> <th>Client Info</th> <th></th> <th>Changed</th> <th>Changed</th> <th>Not Changd</th>	Oil Changed		Client Info		Changed	Changed	Not Changd
IronppmASTM D5185m>2003367711ChromiumppmASTM D5185m>5<100NickelppmASTM D5185m>5000TitaniumppmASTM D5185m>5<100SilverppmASTM D5185m>5<100AluminumppmASTM D5185m>253<1<1LeadppmASTM D5185m>50322CopperppmASTM D5185m>1021283TinppmASTM D5185m>1021283YanadiumppmASTM D5185m>1021<10White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONENONESiliconppmASTM D5185m>202<10WaterWC Methol>0.1NEGNORENORENORESiliconppmASTM D5185m>202<10WaterWC Methol>0.1NEGNORENORENORESiliconppmASTM D5185m>202<10MaterWC Methol>0.1NCRENORENORENORESiliconppmASTM D5185m>202<10Gand/Dirtscalar*VisualNORENORENORE <th>Filter Changed</th> <th></th> <th>Client Info</th> <th></th> <th>N/A</th> <th>N/A</th> <th>N/A</th>	Filter Changed		Client Info		N/A	N/A	N/A
Chromium ppm ASTM D5185m >5 <1	Sample Status				ABNORMAL	NORMAL	NORMAL
Chromium ppm ASTM D5185m >5 <1	Iron				 	67	
NickelppmASTM D5185m>5000TitaniumppmASTM D5185m>5<100SilverppmASTM D5185m>503<1<1LeadppmASTM D5185m>50322CopperppmASTM D5185m>50320VanadiumppmASTM D5185m>10220VanadiumppmASTM D5185m>10220VanadiumppmASTM D5185m>10220VanadiumppmASTM D5185m>10220VanadiumppmASTM D5185m>10NONENONENONEYellow Metalscalar*VisualNONENONENONENONESiliconppmASTM D5185m>202<10WaterwC Method>0.1NEGNONENONENONESilitscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONEAppearancescalar*VisualNORHNORHLNORHLNORHLDdorscalar*VisualNORHNORHLNORHLNORHLGoronppmASTM D5185m<0<100BariumppmASTM D5185m<1111MagnesiumppmASTM D5185m<1000	-						
TitaniumppmASTM D5185m>CIOOSilverppmASTM D5185m>CIOOAluminumppmASTM D5185m>253<1<1LeadppmASTM D5185m>50322CopperppmASTM D5185m>1021283TinppmASTM D5185m>1022OVanadiumppmASTM D5185m>1022OVanadiumppmASTM D5185m>1022OVanadiumppmASTM D5185m>1022OVanadiumppmASTM D5185m>202<1OWhite Metalscalar*VisualNONENONENONENONESiliconppmASTM D5185m>202<1OWaterwC Method>0.1NEGNONENONESilitscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONEAppearancescalar*VisualNORNORMLNORMLNORMLOdorscalar*VisualNORNORNORNORAppearancescalar*VisualNORNORNORNORAppearancescalar*VisualNORNORNOROBoronppmASTM D5185m000Bo							
Silver ppm ASTM D5185m <1					-		÷
Aluminum ppm ASTM D5185m >25 3 <1				>0			
Lead ppm ASTM D5185m >50 3 2 2 Copper ppm ASTM D5185m >150 21 28 3 Tin ppm ASTM D5185m >10 2 2 0 Vanadium ppm ASTM D5185m >10 2 2 0 White Metal scalar *Visual NONE NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE NONE NONE Silicon ppm ASTM D5185m<>25 9 13 7 Potassium ppm ASTM D5185m<>20 2 <1 0 Water WC Method< >0.1 NEG NONE NONE NONE Debris scalar *Visual NONE NONE NONE NONE NORML NORML NORML Appearance scalar *Visual NORI NORML NORML NORML NORML NORML				. 05		÷	-
Copper ppm ASTM D5185m >150 21 28 3 Tin ppm ASTM D5185m >10 2 2 0 Vanadium ppm ASTM D5185m >10 2 2 0 White Metal scalar *Visual NONE NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE NONE NONE Silicon ppm ASTM D5185m >25 9 13 7 Potassium ppm ASTM D5185m >20 2 <1 0 Water WC Method >0.1 NEG NONE NONE NONE Sad/Dirt scalar *Visual NONE NONE NONE NORML NORML Appearance scalar *Visual NORML NORML NORML NORML NORML Codor scalar *Visual NORML NORML NORML NORML NORML </th <th></th> <th></th> <th></th> <th></th> <th>-</th> <th></th> <th></th>					-		
TimppmASTM D5185m>10220VanadiumppmASTM D5185m<<1<10White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONESiliconppmASTM D5185m>202<10WaterWC Method>0.1NEGNEGNONESilitscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENORHLAppearancescalar*VisualNORHNORMLNORMLNORMLOdorscalar*VisualNORHNORMLNORMLNORMLBoronppmASTM D5185m0000BariumppmASTM D5185m<111MagnesiumppmASTM D5185m<100MagnesiumppmASTM D5185m<100CalciumppmASTM D5185m<100PhosphorusppmASTM D5185m<100CalciumppmASTM D5185m<601PhosphorusppmASTM D5185m<601PhosphorusppmASTM D518				,	-		
Name VanadiumppmASTM D5185m<							
White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONENONESiliconppmASTM D5185m>202<10PotassiumppmASTM D5185m>202<10WaterWC Method>0.1NEGNEGNEGSilitscalar*VisualNONEMODERNONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLBoronppmASTM D5185m0000BariumppmASTM D5185m<111MagnesiumppmASTM D5185m<100ManganeseppmASTM D5185m<100CalciumppmASTM D5185m<100PhosphorusppmASTM D5185m<601SulfurppmASTM D5185m<601PhosphorusppmASTM D5185m<601SulfurppmASTM D5185m<601PhosphorusppmASTM D5				>10	_	_	Ű
Yellow Metalscalar*VisualNONENONENONENONESiliconppmASTM D5185m>202<10PotassiumppmASTM D5185m>202<10WaterWC Method>0.1NEGNEGNEGSilitscalar*VisualNONEMODERNONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNOR000BoronppmASTM D5185m0000BariumppmASTM D5185m<1000MagnesiemppmASTM D5185m<111MagnesiumppmASTM D5185m<100CalciumppmASTM D5185m<100PhosphorusppmASTM D5185m<457485461ZincppmASTM D5185m6011SulfurppmASTM D5185m6011SulfurppmASTM D5185m6011MagnesiumppmASTM D5185m6011SulfurppmASTM D5185m<							-
SiliconppmASTM D5185m>259137PotassiumppmASTM D5185m>202<1					-		
PotassiumppmASTM D5185m>202<1	Yellow Metal	scalar	^Visual	NONE	NONE	NONE	NONE
WaterWC Method>0.1NEGNEGNEGSiltscalar*VisualNONEMODERNONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEGNEGSodiumppmASTM D5185m000BoronppmASTM D5185m0000MagnesiumppmASTM D5185m111MagnesiumppmASTM D5185m<03PhosphorusppmASTM D5185m6011ZincppmASTM D5185m601SulfurppmASTM D5185m601	Silicon	0000		05	•	10	-
Siltscalar*VisualNONEMODERNONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMNORMLNORMLNORMLOdorscalar*VisualNORMNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEGSodiumppmASTM D5185m0<10BoronppmASTM D5185m000BariumppmASTM D5185m000MalganeseppmASTM D5185m<111MagnesiumppmASTM D5185m<1100CalciumppmASTM D5185m<14574855461ZincppmASTM D5185m601SulfurppmASTM D5185m601	Oliloon	ppm	ASTM D5185m	>25	9	13	/
Debrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNORNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEGNEGSodiumppmASTM D5185m0<100BoronppmASTM D5185m0000BariumppmASTM D5185m<1111MagnesiumppmASTM D5185m<14111MagnesiumppmASTM D5185m003PhosphorusppmASTM D5185m601ZincppmASTM D5185m601SulfurppmASTM D5185m601					-		
Sand/Dirtscalar*VisualNONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEGNEGSodiumppmASTM D5185m0<100BoronppmASTM D5185m0000BariumppmASTM D5185m0000MalganeseppmASTM D5185m<1111MagnesiumppmASTM D5185m<14100CalciumppmASTM D5185m003PhosphorusppmASTM D5185m601ZincppmASTM D5185m107241617	Potassium		ASTM D5185m	>20	2	<1	0
Appearancescalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEGNEGSodiumppmASTM D5185m0<10BoronppmASTM D5185m0000BariumppmASTM D5185m<1100MolybdenumppmASTM D5185m<1111MagnesiumppmASTM D5185m<1100CalciumppmASTM D5185m<1100PhosphorusppmASTM D5185m601ZincppmASTM D5185m601SulfurppmASTM D5185m601	Potassium Water	ppm	ASTM D5185m WC Method	>20 >0.1	2 NEG	<1 NEG	0 NEG
Odorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEGNEGSodiumppmASTM D5185m0<10BoronppmASTM D5185m0000BariumppmASTM D5185m<1000MolybdenumppmASTM D5185m<1000ManganeseppmASTM D5185m<1111MagnesiumppmASTM D5185m<1000CalciumppmASTM D5185m0033PhosphorusppmASTM D5185m461461461ZincppmASTM D5185m6011SulfurppmASTM D5185m2416171	Potassium Water Silt	ppm scalar	ASTM D5185m WC Method *Visual	>20 >0.1 NONE	2 NEG MODER	<1 NEG NONE	0 NEG NONE
Emulsified Water scalar *Visual >0.1 NEG NEG NEG Sodium ppm ASTM D5185m 0 <1 0 Boron ppm ASTM D5185m 0 0 0 Barium ppm ASTM D5185m <1 0 0 Barium ppm ASTM D5185m <1 0 0 Molybdenum ppm ASTM D5185m <1 0 0 Magnesee ppm ASTM D5185m <1 1 1 Magnesium ppm ASTM D5185m <1 0 0 Calcium ppm ASTM D5185m 0 0 3 Phosphorus ppm ASTM D5185m 0 0 3 Phosphorus ppm ASTM D5185m 457 485 461 Zinc ppm ASTM D5185m 6 0 1 Sulfur ppm ASTM D5185m 107 241 617	Potassium Water Silt Debris	ppm scalar scalar	ASTM D5185m WC Method *Visual *Visual	>20 >0.1 NONE NONE	2 NEG MODER NONE	<1 NEG NONE NONE	0 NEG NONE NONE
Sodium ppm ASTM D5185m 0 <1	Potassium Water Silt Debris Sand/Dirt	ppm scalar scalar scalar	ASTM D5185m WC Method *Visual *Visual *Visual	>20 >0.1 NONE NONE NONE	2 NEG MODER NONE NONE	<1 NEG NONE NONE NONE	0 NEG NONE NONE
Boron ppm ASTM D5185m 0 0 0 Barium ppm ASTM D5185m <1 0 0 Molybdenum ppm ASTM D5185m 0 0 0 Manganese ppm ASTM D5185m <1 1 1 Magnesium ppm ASTM D5185m <1 0 0 Calcium ppm ASTM D5185m <1 0 0 Phosphorus ppm ASTM D5185m <1 0 3 Phosphorus ppm ASTM D5185m 6 0 1 Zinc ppm ASTM D5185m 6 0 1 Sulfur ppm ASTM D5185m 61 0 1	Potassium Water Silt Debris Sand/Dirt Appearance	ppm scalar scalar scalar scalar	ASTM D5185m WC Method *Visual *Visual *Visual *Visual	>20 >0.1 NONE NONE NONE	2 NEG MODER NONE NONE NORML	<1 NEG NONE NONE NONE NORML	0 NEG NONE NONE
Boron ppm ASTM D5185m 0 0 0 Barium ppm ASTM D5185m <1 0 0 Molybdenum ppm ASTM D5185m 0 0 0 Manganese ppm ASTM D5185m <1 1 1 Magnesium ppm ASTM D5185m <1 0 0 Calcium ppm ASTM D5185m <1 0 0 Phosphorus ppm ASTM D5185m <1 0 3 Phosphorus ppm ASTM D5185m 6 0 1 Zinc ppm ASTM D5185m 6 0 1 Sulfur ppm ASTM D5185m 61 0 1	Potassium Water Silt Debris Sand/Dirt Appearance Odor	ppm scalar scalar scalar scalar scalar	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual	>20 >0.1 NONE NONE NORML NORML	2 NEG MODER NONE NONE NORML NORML	<1 NEG NONE NONE NONE NORML NORML	0 NEG NONE NONE NORE NORML
Barium ppm ASTM D5185m <1	Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water	ppm scalar scalar scalar scalar scalar	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual	>20 >0.1 NONE NONE NORML NORML	2 NEG MODER NONE NONE NORML NORML NEG	<1 NEG NONE NONE NORML NORML NEG	0 NEG NONE NONE NORML NORML NEG
Molybdenum ppm ASTM D5185m 0 0 0 Manganese ppm ASTM D5185m <1 1 1 Magnesium ppm ASTM D5185m <1 0 0 Calcium ppm ASTM D5185m <1 0 0 Phosphorus ppm ASTM D5185m 0 0 3 Phosphorus ppm ASTM D5185m 457 485 461 Zinc ppm ASTM D5185m 6 0 1 Sulfur ppm ASTM D5185m 64 0 1	Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium	ppm scalar scalar scalar scalar scalar scalar	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m	>20 >0.1 NONE NONE NORML NORML	2 NEG MODER NONE NORML NORML NEG 0	<1 NEG NONE NONE NORML NORML NEG	0 NEG NONE NONE NORML NORML NEG
Manganese ppm ASTM D5185m <1	Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron	ppm scalar scalar scalar scalar scalar scalar ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m	>20 >0.1 NONE NONE NORML NORML	2 NEG MODER NONE NORML NORML NEG 0	<1 NEG NONE NONE NORML NORML NEG <1 0	0 NEG NONE NONE NORML NORML NEG 0 0
Magnesium ppm ASTM D5185m <1	Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	ppm scalar scalar scalar scalar scalar scalar ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m	>20 >0.1 NONE NONE NORML NORML	2 NEG MODER NONE NORML NORML NEG 0 0 2	<1 NEG NONE NONE NORML NORML NEG <1 0 0	0 NEG NONE NONE NORML NORML NEG 0 0
Calcium ppm ASTM D5185m 0 0 3 Phosphorus ppm ASTM D5185m 457 485 461 Zinc ppm ASTM D5185m 6 0 1 Sulfur ppm ASTM D5185m 107 241 617	Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum	ppm scalar scalar scalar scalar scalar ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m	>20 >0.1 NONE NONE NORML NORML	2 NEG NONE NONE NORML NORML NEG 0 0 2 1 0	<1 NEG NONE NONE NORML NORML NEG <1 0 0 0	0 NEG NONE NONE NORML NORML NEG 0 0 0 0
Phosphorus ppm ASTM D5185m 457 485 461 Zinc ppm ASTM D5185m 6 0 1 Sulfur ppm ASTM D5185m 107 241 617	Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Manganese	ppm scalar scalar scalar scalar scalar scalar ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >0.1 NONE NONE NORML NORML	2 NEG NONE NONE NORML NORML NEG 0 c1 0 c1	<1 NEG NONE NONE NORML NORML NEG <1 0 0 0 0 1	0 NEG NONE NONE NORML NORML NEG 0 0 0 0 0 0 0
Zinc ppm ASTM D5185m 6 0 1 Sulfur ppm ASTM D5185m 107 241 617	Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Manganese Magnesium	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >0.1 NONE NONE NORML NORML	2 NEG MODER NONE NORML NORML NEG 0 0 <1 0 <1 0 <1 0 <1 0 <1 0	<1 NEG NONE NONE NORML NORML NEG <1 0 0 0 0 1 0 0 1 0	0 NEG NONE NONE NORML NORML NEG 0 0 0 0 0 0 0 0 0 1 0
Sulfur ppm ASTM D5185m 107 241 617	Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Manganese Magnesium	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >0.1 NONE NONE NORML NORML	2 NEG MODER NONE NORML NORML NEG 0 <1 0 <1 0 <1 0 <1 0 <1 0 <1 0 <1 0	<1 NEG NONE NONE NORML NORML NEG <1 0 0 0 1 0 1 0 0 0 0	0 NEG NONE NONE NORML NORML NEG 0 0 0 0 0 0 0 1 0 0 3
	Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Manganese Magnesium Calcium	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >0.1 NONE NONE NORML NORML	2 NEG NONE NONE NORML NORML NEG 0 (1 (1 (1) (1) (1) (1) (1) (1) (1) (1) (<1 NEG NONE NONE NORML NORML NEG <1 0 0 0 1 0 0 1 0 0 485	0 NEG NONE NONE NORML NORML NEG 0 0 0 0 0 0 0 1 0 0 1 0 3 461
	Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >0.1 NONE NONE NORML NORML	2 NEG NONE NONE NORML NORML NEG 0 (1 (1 (1 (1) (1) (1) (1) (1) (1) (1) (1	<1 NEG NONE NONE NORML NORML NEG <1 0 0 0 1 0 0 1 0 0 0 485 0	0 NEG NONE NONE NORML NORML NEG 0 0 0 0 0 0 0 0 0 0 1 0 0 3 461 1

Contact/Location: AL PARKER - WAKKNI





WAKE STONE CORPORATION-KNIGHTDALE Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : WC0729168 Received **PO BOX 190** : 12 Jul 2024 Lab Number : 06235253 Tested KNIGHTDALE, NC : 15 Jul 2024 Diagnosed Unique Number : 11124087 : 15 Jul 2024 - Sean Felton US 27545 Test Package : MOB 1 Contact: AL PARKER Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. alparker@wakestonecorp.com * - 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: (919)266-1149

Contact/Location: AL PARKER - WAKKNI Page 2 of 2

Jul17/23

Jun24/24

T:

ul17/23