

## WEAR NORMAL CONTAMINATION ABNORMAL FLUID CONDITION NORMAL

## KANSAS/44/EG - Telehandler 12.05W [KANSAS^44^EG - Telehandler] Front Differential

MOBIL MOBILTRANS HD 50 (--- GAL)

RECOMMENDATION

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

**WEAR** 

All component wear rates are normal.

## CONTAMINATION

Elemental level of silicon (Si) above normal.

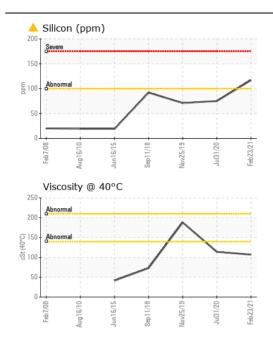
## FLUID CONDITION

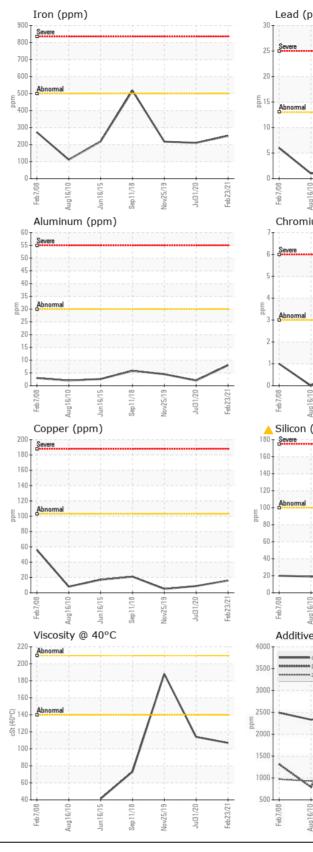
The condition of the oil is acceptable for the time in service.

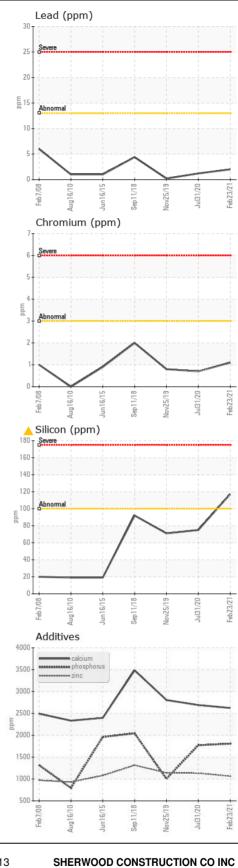
TestUOMMethodLimit/MCurrentHistory1History2Sample NumberCClient InfoVC0528161WC0434465WC039800Sample DateClient InfoZS Fab 20213 Jul 20202 Nov 2019Machine AgeInsoClient InfoGGGGOil AgeInsoClient InfoGNot ChangedNot ChangedFilter AchangeIntoClient InfoKNot ChangedNot ChangedSample StatusClient InfoMANot ChangedNot ChangedTornorppmASTM 25186S 40GGGChromiumppmASTM 25186S 40GGGNickelppmASTM 25186S 40GGGSilverppmASTM 25186S 40GGGSilverppmASTM 25186S 40GGGAuminumppmASTM 25186S 40GGGSilverppmASTM 25186S 40GG							
Sample DateClient InfoJeaSi Pie 2021Si Jul 2020Si Nova Pie 1Machine AgehrsClient InfoIGadGadGionGionFilter AgehrsClient InfoIChangedNot ChangedNot ChangedFilter ChangedIClient InfoIRangedNot ChangedFilter ChangedIClient InfoNANot ChangedSample StatusISilter ChangedISilter ChangedIIronpmASTM DS185>5000251021012171ChromiumpmASTM DS185>30IIINickelpmASTM DS185>30IIINickelpmASTM DS185>30IIISilterpmASTM DS185>30IIIChomiumpmASTM DS185>100IIIGoperpmASTM DS185>100IIICopperpmASTM DS185>100IIIVanduimpmASTM DS185>100IIIVanduimpmASTM DS185>100IIISilterpmASTM DS185>100IIIVanduimpmASTM DS185>100IIIVanduimpmASTM DS185>100IIISilterpmASTM DS185>100III <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 AgeInsoClient InfoG652363006150Oil AgehrsoClient Info0000Filter AgehrsoClient InfoCAncAaadNachaadChangedFilter ChangedIClient InfoNANAC hangdNAC hangdSample Status-KIM DS188nS00210210217ChromiumppmASTM DS188nS0251210217ChromiumppmASTM DS188nS010-11NickelppmASTM DS188nS021-1NickelppmASTM DS188nS000-1SilverppmASTM DS188nS030624LeadppmASTM DS188nS036953CopperppmASTM DS188nS1010-1-1CopperppmASTM DS188nS1010953VanadiumppmASTM DS188nS10109510310VanadiumppmASTM DS188nS101010-1-1VanadiumppmASTM DS188nS20In951010-1VanadiumppmASTM DS188nS20In10-1-1-1VanadiumppmASTM DS188nS20In1010-1-1VanadiumppmASTM DS1	Sample Number		Client Info		WC0528161	WC0434465	WC0398709
Oli AgehrsClient InfoW00Filter AgehrsClient InfoCC<	Sample Date		Client Info		23 Feb 2021	31 Jul 2020	25 Nov 2019
Her of the sectorInter of the sectorOOOOil ChangedClient InfoChangedNANot ChangedFilter ChangedClient InfoNANANot ChangedSample StatusClient InfoABNORMAABNORMAABNORMAIronppmASTM D518m>500251210217ChromiumppmASTM D518m>301<1<1NickelppmASTM D518m>301<1<1NickelppmASTM D518m>306<1<1NickelppmASTM D518m>30824LeadppmASTM D518m>101695TinppmASTM D518m>101695TinppmASTM D518m>101000White Metalscalar*isualNONENONENONENONESiliconppmASTM D518m>10101010Valondscalar*isualNONENONENONENONESiliconppmASTM D518m>20121PotassiumppmASTM D518m>20121SiliconppmASTM D518m>20121PotassiumppmASTM D518m>20121SiliconppmASTM D518m>20121SiliconppmASTM D518m20 </th <th>Machine Age</th> <th>hrs</th> <th>Client Info</th> <th></th> <th>6523</th> <th>6300</th> <th>6150</th>	Machine Age	hrs	Client Info		6523	6300	6150
Oil ChangedClient InfoChangedNot ChangedChangedFilter ChangedClient InfoN/AN/ANot ChangedSample StatusKTM D5165m>500Z510Z100Z177ChromiumppmASTM D5165m>301<1<1NickelppmASTM D5165m>301<10<11NickelppmASTM D5165m>301<1<1NickelppmASTM D5165m>201<1<1NitaniumppmASTM D5165m>20621<1AluminumppmASTM D5165m>13016955CopperppmASTM D5165m>13016900VanadiumppmASTM D5165m>10010000White Metalscalar*VisualNONENONENONENONENONESiliconppmASTM D5165m>1001211VatarVCNONENONENONENONENONENONESiliconppmASTM D5165m>100121NONESiliconppmASTM D5165m>100NONENONENONENONESiliconppmASTM D5165m>100NONENONENONENONESiliconppmASTM D5165m>100NONENONENONENONESoliconscalar*VisualNONENONE<	Oil Age	hrs	Client Info		0	0	0
Filter ChangedIdClient InfoIvN/AN/ANot ChangdSample StatusABNORMALABNORMALABNORMALABNORMALABNORMALABNORMALIronppmASTM D5185>500251210217ChroniumppmASTM D5185>3000<1NickelppmASTM D5185>2<1<10SilverppmASTM D5185>2000AluminumppmASTM D5185>30821<1CopperppmASTM D5185>1031695CopperppmASTM D5185>10316900VanadiumppmASTM D5185>1001000NONENONEVeltow Metalscalar'VisualNONENONENONENONENONESiliconppmASTM D5185>100ANONENONENONENONESiliconppmASTM D5185>20121Veltow Metalscalar'VisualNONENONENONESiliconppmASTM D5185>20121NoterNONENONENONENONENONENONESiliconppmASTM D5185>20121QuadresvisualNONENONENONENONENONESiliconscalar'VisualNONENONENONE<	Filter Age	hrs	Client Info		0	0	0
Sample StatusASTM D5185>500ABNORMALNORMALABNORMALIronppmASTM D5185>500251210217ChromiumppmASTM D5185>300<1NickelppmASTM D5185>300.0<1TitaniumppmASTM D5185>2<1<10SilverppmASTM D5185>200.00AluminumppmASTM D5185>20169.0<5CopperppmASTM D5185>103169.0<0VanadiumppmASTM D5185>103169.00White Metalscalar'VisualNONENONENONENONEVelow Metalscalar'VisualNONENONENONENONESiliconppmASTM D5185>1001221VatarvisualNONENONENONENONENONESiliconppmASTM D5185>201221VatarvisualNONENONENONENONENONESiliconppmASTM D5185>201221Debrisscalar'VisualNONENONENONENONESilitscalar'VisualNORNONENONENONEAppearancescalar'VisualNORNORENORE0.2%SodiumppmASTM D5185-216 <th>Oil Changed</th> <th></th> <th>Client Info</th> <th></th> <th>Changed</th> <th>Not Changd</th> <th>Changed</th>	Oil Changed		Client Info		Changed	Not Changd	Changed
IronppmASTM D5185m>500251210217ChromiumppmASTM D5185m>31<1<1<1NickelppmASTM D5185m>300<1TitaniumppmASTM D5185m>2<1<10SilverppmASTM D5185m>2000AluminumppmASTM D5185m>308224LeadppmASTM D5185m>13211<1CopperppmASTM D5185m>502<1<1VanadiumppmASTM D5185m>502<1<1VanadiumppmASTM D5185m>502<1<1VanadiumppmASTM D5185m>502<1<1VanadiumppmASTM D5185m>100NONENONENONENONEVellow Metalscalar*VisualNONENONENONENONENONESiliconppmASTM D5185m>100121<1VaterVCNCHNONENONENONENONESilitscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONEAppearancescalar*VisualNORENORENORENOREAppearancescalar*VisualNORENORE1612Boronppm <t< th=""><th>Filter Changed</th><th></th><th>Client Info</th><th></th><th>N/A</th><th>N/A</th><th>Not Changd</th></t<>	Filter Changed		Client Info		N/A	N/A	Not Changd
ChromiumppmASTM D5185m>301<1	Sample Status				ABNORMAL	NORMAL	ABNORMAL
ChromiumppmASTM D5185m>301<1				500	054	010	047
NickelpmASTM D5185m>300<1	-				-	-	
TitaniumppmASTM D5185m>2<1					-		
SilverppmASTM D5185m>2000AluminumppmASTM D5185m>30824LeadppmASTM D5185m>1321<1CopperppmASTM D5185m>1031695TinppmASTM D5185m>52<1<1VanadiumppmASTM D5185m>52<1<1VanadiumppmASTM D5185m>52<1<1VanadiumppmASTM D5185m>52<1<10White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONESiliconppmASTM D5185m>1001177571PotassiumppmASTM D5185m>20121WaterWC Method>.2NEGNONENONENONESilitscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNORNORENORENOREAppearancescalar*VisualNORNORENORE.2.2%SodiumppmASTM D5185m<21612BarunppmASTM D5185m<2NEG.2.2%SodiumppmASTM D5185m<2NEG.2.2%Mapearancescalar*VisualNORNORENOREBoro						-	
AluminumppmASTM D5185m>30824LeadppmASTM D5185m>13321<1CopperppmASTM D5185m>1031695TinppmASTM D5185m>52<1<1VanadiumppmASTM D5185m>52<1<1VanadiumppmASTM D5185m>52<1<1VanadiumppmASTM D5185m>100NONENONENONENONEYellow Metalscalar*VisualNONENONENONENONENONESiliconppmASTM D5185m>100 <b>1</b> 7571PotassiumppmASTM D5185m>20121WaterWC Method>.2NEGNEGNONENONESolitscalar*VisualNONENONENONENONEDebrisscalar*VisualNORNORENONENORHAppearancescalar*VisualNORNORMLNORMLNORMLAddified Waterscalar*VisualNORS163612BoronppmASTM D5185m<251615BoronppmASTM D5185m<000ManganeseppmASTM D5185m<363612ManganeseppmASTM D5185m<36362805ManganeseppmASTM D5185m <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>							
LeadppmASTM D5185m>1321<1						-	
CopperppmASTM D5185m>1031695TinppmASTM D5185m>52<1<1VanadiumppmASTM D5185m>0000White Metalscalar'VisualNONENONENONENONEYellow Metalscalar'VisualNONENONENONENONESiliconppmASTM D5185m>100 <b>1</b> 177571PotassiumppmASTM D5185m>20 <b>1</b> 21WaterWC Method>.2NEGNONENEGNONESilitonscalar'VisualNONENONENONENONESolar'VisualNONENONENONENONENONESand/Dirtscalar'VisualNONENORMNORMNORMLAppearancescalar'VisualNORMNORMLNORMLNORMLGodrscalar'VisualNORMNORMLNORML0.2%SodiumppmASTM D5185mC3612BariumppmASTM D5185mG00MolybdenumppmASTM D5185mS5332MagnesiumppmASTM D5185mC13312Galar'NorsetSS332MonduppmASTM D5185mC332SodiumppmASTM D5185mC13312GariumppmASTM							
TinppmASTM D5185m>52<1							
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Yellow Metalscalar*VisualNONENONENONENONENONESiliconppmASTM D5185m>1001177571PotassiumppmASTM D5185m>20121WaterVOC Method>.20NEGNEGNEGSilitscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMNORMLNORMLNORMLOdorscalar*VisualNORMNORMLNORMLNORMLGodrscalar*VisualNORMNORMLNORMLNORMLBarlumppmASTM D5185m21612BariumppmASTM D5185m23G12ManganeseppmASTM D5185m161312MagnesiumppmASTM D5185m53.226902805PhosphorusppmASTM D5185m113122104ZincppmASTM D5185m1613.31140SinfurppmASTM D5185m1063113.31140				NONE			
SiliconppmASTM D5185m>100▲ 1177571PotassiumppmASTM D5185m>20121WaterWC Method>.2NEGNEGNEGSilitscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMNORMLNORMLNORMLOdorscalar*VisualNORMNORMLNORMLNORMLEmulsified Waterscalar*VisualNORMNORMNORMLNORMLBoronppmASTM D5185m161512BariumppmASTM D5185mImagenese3322MagnesiumppmASTM D5185mImagenese1312MagnesiumppmASTM D5185mImagenese260902805PhosphorusppmASTM D5185mImagenese260902805PhosphorusppmASTM D5185mImagenese260902805PhosphorusppmASTM D5185mImagenese1100411004JunceppmASTM D5185mImagenese260902805PhosphorusppmASTM D5185mImagenese1100311400JunceppmASTM D5185mImagenese260902805PhosphorusppmASTM D5185m							
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WaterWC Method>.2NEGNEGSiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONENONESand/Dirtscalar*VisualNONENONENONENONENONEAppearancescalar*VisualNORMNORMLNORMLNORMLNORMLOdorscalar*VisualNORMNORMLNORMLNORMLNORMLEmulsified Watescalar*Visual>.2NEGNEG0.2%SodiumppmASTM D5185m21615BoronppmASTM D5185m21612MalganeseppmASTM D5185m13212MagnesiumppmASTM D5185m15332PhosphorusppmASTM D5185m26233269002805PhosphorusppmASTM D5185m1180717711004SilfurppmASTM D5185m106311331140SinceppmASTM D5185m106333543364	Silicon	ppm	ASTM D5185m	>100	<b>117</b>	75	71
Siltscalar*VisualNONENONENONENONENONEDebrisscalar*VisualNONENONENONENONENONESand/Dirtscalar*VisualNONENONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>.2NEGNEG0.2%SodiumppmASTM D5185m21615BoronppmASTM D5185m23612BariumppmASTM D5185m0000ManganeseppmASTM D5185m532MagnesiumppmASTM D5185m11513312CalciumppmASTM D5185m216632805PhosphorusppmASTM D5185m106311331140SilfurppmASTM D5185m106311331140SilfurppmASTM D5185m106338363836	Potassium	ppm	ASTM D5185m	>20	1	2	1
Debrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMNORMLNORMLNORMLOdorscalar*VisualNORMNORMLNORMLNORMLEmulsified Watescalar*Visual>.2NEGNEG0.2%SodiumppmASTM D5185mS3612BariumppmASTM D5185mI3612MagnesiumppmASTM D5185mI11MagnesiumppmASTM D5185mI132PhosphorusppmASTM D5185mI1312PhosphorusppmASTM D5185mI131004Sinc IppmASTM D5185mI1331140Sinc IppmASTM D5185mI1331140Sinc IppmASTM D5185mI36323693361MagnesiumppmASTM D5185mI1331140Sinc IppmASTM D5185mI106311331140Sinc IppmASTM D5185mI3633368140Sinc IppmASTM D5185mI363363363PhosphorusppmASTM D5185mI363363363Sinc IppmASTM D5185mI363363363PhosphorusppmASTM D51	Water		WC Method	>.2	NEG	NEG	NEG
Sand/Dirtscalar*VisualNONENONENONENONENORMLNORMLAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMNORMLNORMLNORMLNORMLNORMLEmulsified Watescalar*Visual>.2INEGNEG0.2%SodiumppmASTM D5185mIIIIBoronppmASTM D5185mI3612BariumppmASTM D5185mIII0MolybdenumppmASTM D5185mIII0ManganeseppmASTM D5185mII1312CalciumppmASTM D5185mII1312PhosphorusppmASTM D5185mII10042805PhosphorusppmASTM D5185mII10041104SulfurppmASTM D5185mII3631140SulfurppmASTM D5185mII3631140	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearancescalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>.2NEGNEG0.2%SodiumppmASTM D5185mc251615BoronppmASTM D5185mC3612BariumppmASTM D5185mC000MolybdenumppmASTM D5185mC332ManganeseppmASTM D5185mC32MagnesiumppmASTM D5185mC13312PhosphorusppmASTM D5185mC26902805PhosphorusppmASTM D5185mInteg11331140SulfurppmASTM D5185mC417743683836	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Odorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>.2NEGNEG0.2%SodiumppmASTM D5185m251615BoronppmASTM D5185m253612BariumppmASTM D5185m000MolybdenumppmASTM D5185m14<10ManganeseppmASTM D5185m532MagnesiumppmASTM D5185m151312PhosphorusppmASTM D5185m262332690028053PhosphorusppmASTM D5185m118071771110044ZincppmASTM D5185m1063311331140SulfurppmASTM D5185m041777436883836	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Emulsified Waterscalar*Visual>.2NEGNEG0.2%SodiumppmASTM D5185m251615BoronppmASTM D5185m353612BariumppmASTM D5185m0000MolybdenumppmASTM D5185m<41<10ManganeseppmASTM D5185m5322MagnesiumppmASTM D5185m151312CalciumppmASTM D5185m262332690028053PhosphorusppmASTM D5185m10633113331140SulfurppmASTM D5185m417774368838364	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Sodium ppm ASTM D5185m 25 16 15   Boron ppm ASTM D5185m 35 36 12   Barium ppm ASTM D5185m 0 0 0   Molybdenum ppm ASTM D5185m c c c c   Manganese ppm ASTM D5185m c <thc< th=""> c<th>Odor</th><th>scalar</th><th>*Visual</th><th>NORML</th><th>NORML</th><th>NORML</th><th>NORML</th></thc<>	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Boron   ppm   ASTM D5185m   35   36   12     Barium   ppm   ASTM D5185m   0   0   0     Molybdenum   ppm   ASTM D5185m   0   1   0     Manganese   ppm   ASTM D5185m   5   3   2     Magnesium   ppm   ASTM D5185m   15   13   12     Calcium   ppm   ASTM D5185m   26233   26900   28053     Phosphorus   ppm   ASTM D5185m   1807   1771   10044     Zinc   ppm   ASTM D5185m   10633   1133   1140     Sulfur   ppm   ASTM D5185m   41077   4368   3836	Emulsified Water	scalar	*Visual	>.2	NEG	NEG	0.2%
Barium   ppm   ASTM D5185m   0   0   0     Molybdenum   ppm   ASTM D5185m   <   <1   <1   0     Manganese   ppm   ASTM D5185m   5   3   2     Magnesium   ppm   ASTM D5185m   5   3   2     Calcium   ppm   ASTM D5185m   15   13   12     Phosphorus   ppm   ASTM D5185m   26233   26900   28053     Phosphorus   ppm   ASTM D5185m   1807   1771   10044     Zinc   ppm   ASTM D5185m   10633   1133   1140     Sulfur   ppm   ASTM D5185m   4177   4368   38364	Sodium	ppm	ASTM D5185m		25	16	15
Molybdenum   ppm   ASTM D5185m   <1	Boron	ppm	ASTM D5185m		35	36	12
Manganese   ppm   ASTM D5185m   5   3   2     Magnesium   ppm   ASTM D5185m   15   13   12     Calcium   ppm   ASTM D5185m   2623   2690   2805     Phosphorus   ppm   ASTM D5185m   1807   1771   1004     Zinc   ppm   ASTM D5185m   1063   1133   1140     Sulfur   ppm   ASTM D5185m   4177   4368   3836	Barium	ppm	ASTM D5185m		0	0	0
Magnesium   ppm   ASTM D5185m   15   13   12     Calcium   ppm   ASTM D5185m   2623   2690   2805     Phosphorus   ppm   ASTM D5185m   1807   1771   1004     Zinc   ppm   ASTM D5185m   1063   1133   1140     Sulfur   ppm   ASTM D5185m   4177   4368   3836	Molybdenum	ppm	ASTM D5185m		<1	<1	0
Calcium   ppm   ASTM D5185m   2623   2690   2805     Phosphorus   ppm   ASTM D5185m   1807   1771   1004     Zinc   ppm   ASTM D5185m   1063   1133   1140     Sulfur   ppm   ASTM D5185m   4177   4368   3836	Manganese	ppm	ASTM D5185m		5	3	2
Calcium   ppm   ASTM D5185m   2623   2690   2805     Phosphorus   ppm   ASTM D5185m   1807   1771   1004     Zinc   ppm   ASTM D5185m   1063   1133   1140     Sulfur   ppm   ASTM D5185m   4177   4368   3836	Magnesium	ppm	ASTM D5185m		15	13	12
Zinc   ppm   ASTM D5185m   1063   1133   1140     Sulfur   ppm   ASTM D5185m   4177   4368   3836	Calcium		ASTM D5185m		2623	2690	2805
Zinc   ppm   ASTM D5185m   1063   1133   1140     Sulfur   ppm   ASTM D5185m   4177   4368   3836	Phosphorus		ASTM D5185m		1807	1771	1004
Sulfur   ppm   ASTM D5185m   4177   4368   3836						1100	1140
	Zinc	ppm	ASTM D5185m		1063	1133	1140

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Submitted By: RANDY ROBERTS







Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. 3219 WEST MAY ST : WC0528161 Received : 01 Mar 2021 Lab Number : 05193091 WICHITA, KS Tested : 02 Mar 2021 Unique Number : 9383389 : 02 Mar 2021 - Don Baldridge US 67213 Diagnosed Test Package : MOBCE Contact: DOUG KING Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. doug.king@sherwood.net \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (316)617-3161

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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