

## Machine Id MORBARK 6600 TG-5 (S/N 186-1132)

# Gearbox

### VALVOLINE 80W90 (--- GAL)

R	EC	OM	IME	ND.	ΑΤΙ	ON

Resample at the next service interval to monitor.

#### WEAR

All component wear rates are normal.

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#### **CONTAMINATION**

There is no indication of any contamination in the oil.

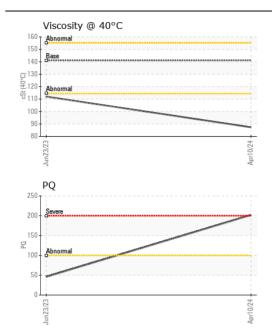
### FLUID CONDITION

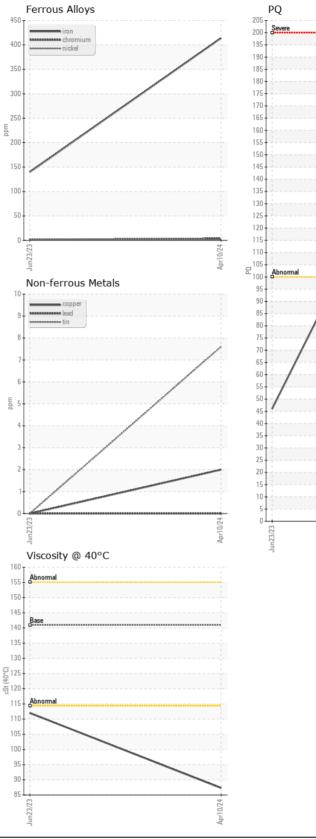
The condition of the oil is acceptable for the time in service.

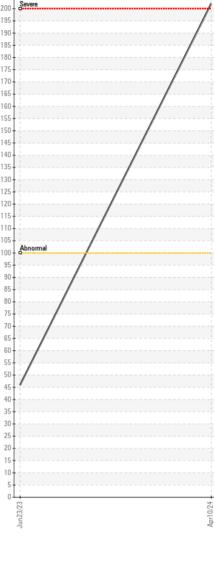
Test  UOM  Method  Limit/An  Current  History1  History2    Sample Number  Client Info  10 Apr 2024  23 Jun 2023     Machine Age  hrs  Client Info  10 148  9513     Machine Age  hrs  Client Info  0  248     Oil Changed  rs  Client Info  0  248     Filter Age  hrs  Client Info  N/A  Changed     Gli Changed  Client Info  N/A  Changed     Sample Status  Virant DS185m  S200  414  140     Filter Age  ppm  ASTM DS185m  >10  4      Chromium  ppm  ASTM DS185m  >10  1      Nickel  ppm  ASTM DS185m  >10  1      Silver  ppm  ASTM DS185m  >20  2      Aluminum							
Sample Date  Client Info  10 Apr 2024  23 Jun 2023     Machine Age  hrs  Client Info  10148  9513     Oil Age  hrs  Client Info  483  248     Oil Changed  Client Info  0  248     Oil Changed  Client Info  0  248     Filter Changed  Client Info  NA  Changed     Sample Status   NORMAL  NORMAL     PQ  ASTM D5185m  >200  414  140     Nickel  ppm  ASTM D5185m  >10  4      Nickel  ppm  ASTM D5185m  >10  4      Silver  ppm  ASTM D5185m  >200  4      Auuminum  ppm  ASTM D5185m  >20  2  0     Vanadum  ppm  ASTM D5185m  >20  2  0	Test	UOM	Method	Limit/Abn	Current	History1	History2
Machine Age  hrs  Client Info  10148  9513     Oil Age  hrs  Client Info  483  248     Filter Age  hrs  Client Info  0  248     Oil Changed  Client Info  N/A  Changed     Filter Changed  Client Info  N/A  Changed     Sample Status  NFM  N/A  Changed     PQ  ASTM D5185m  >200  414  140     Chromium  ppm  ASTM D5185m  >10  1  <1     Nickel  ppm  ASTM D5185m  >10  1  <1     Silver  ppm  ASTM D5185m  >200  2  0     Aluminum  ppm  ASTM D5185m  >200  2  0     Aluminum  ppm  ASTM D5185m  >200  2  0     Vanadium  ppm  ASTM D5185m  >20	Sample Number		Client Info		JR0196450	JR0160811	
Oil Age Filter Age  hrs  Client Info  483  248     Filter Age  hrs  Client Info  0  248     Oil Changed  Client Info  N/A  Changed     Filter Changed  Client Info  N/A  Changed     Sample Status  NORMAL  NORMAL  NORMAL     PQ  ASTM D5185m  >200  414  140     Iron  ppm  ASTM D5185m  >10  4      Nickel  ppm  ASTM D5185m  >10  1      Silver  ppm  ASTM D5185m  <1  0      Lead  ppm  ASTM D5185m  >200  2  0     Vanadium  ppm  ASTM D5185m  >200  2  0     Silicon  ppm  ASTM D5185m  >20  21  3     Silit  scalar  'Visual <th>Sample Date</th> <th></th> <th>Client Info</th> <th></th> <th>10 Apr 2024</th> <th>23 Jun 2023</th> <th></th>	Sample Date		Client Info		10 Apr 2024	23 Jun 2023	
Filter Age  hrs  Client Info  0  248     Oil Changed  Client Info  N/A  Changed     Sample Status  Client Info  N/A  Changed     Sample Status  NORMAL  NORMAL  NORMAL     PQ  ASTM D5185m  200  414  140     Chromium  ppm  ASTM D5185m  210  4     Nickel  ppm  ASTM D5185m  1      Silver  ppm  ASTM D5185m  25  2  <1     Aluminum  ppm  ASTM D5185m  >200  2  0     In  ppm  ASTM D5185m  >200  2  0     Vanadimum  ppm  ASTM D5185m  >200  2  0     Vanadimu  ppm  ASTM D5185m  >200  2  0     Yellow Metal  scalar  Yuisual  NONE </th <th>Machine Age</th> <th>hrs</th> <th>Client Info</th> <th></th> <th>10148</th> <th>9513</th> <th></th>	Machine Age	hrs	Client Info		10148	9513	
Oil Changed Filter ChangedClient InfoChanged N/AChanged ChangedSample StatusClient InfoN/ANORMALNORMALPQASTM D818420246IronppmASTM D5185m>200414140ChromiumppmASTM D5185m>104<1NickelppmASTM D5185m>101<1NickelppmASTM D5185m>101<1SilverppmASTM D5185m>20020AluminumppmASTM D5185m>20020QaaduumppmASTM D5185m>20020VanaduumppmASTM D5185m>20020White Metalscalar*VisualNONENONENONEVallow Metalscalar*VisualNONENONENONESiliconppmASTM D5185m>5035SiliconppmASTM D5185m>20213SiliconppmASTM D5185m>20213SoliconppmASTM D5185m>20213SoliconppmASTM D5185m>20213SoliconppmASTM D5185m>20213Goloscalar*VisualNORENORE <t< th=""><th>Oil Age</th><th>hrs</th><th>Client Info</th><th></th><th>483</th><th>248</th><th></th></t<>	Oil Age	hrs	Client Info		483	248	
Filter Changed Sample Status  Client Info  N/A  Changed N/A  Changed NA     PQ  ASTM D8184  202  46     Iron  ppm  ASTM D5185m  >200  414  140     Chromium  ppm  ASTM D5185m  >10  4  <1     Nickel  ppm  ASTM D5185m  >10  1  <1  0     Silver  ppm  ASTM D5185m  >25  2  <1     Auminum  ppm  ASTM D5185m  >250  0  0     Lead  ppm  ASTM D5185m  >200  2  0     Lead  ppm  ASTM D5185m  >200  2  0     Vanadium  ppm  ASTM D5185m  >200  2  0     Yellow Metal  scalar  'Visual  NONE  NONE  NONE     Silicon  ppm  ASTM D5185m  >20  <	Filter Age	hrs	Client Info		0	248	
Sample Status  NORMAL  NORMAL  NORMAL     PQ  ASTM D8184  202  46     Iron  ppm  ASTM D5185m  >200  414  140     Chromium  ppm  ASTM D5185m  >10  4  <1     Nickel  ppm  ASTM D5185m  >10  1  <1     Silver  ppm  ASTM D5185m  >25  2  <1     Auminum  ppm  ASTM D5185m  >250  0  0     Lead  ppm  ASTM D5185m  >200  2  0     Lead  ppm  ASTM D5185m  >200  2  0     Vanadium  ppm  ASTM D5185m  >200  2  0     Yellow Metal  scalar  'Visual  NONE  NONE  NONE     Silicon  ppm  ASTM D5185m  >20  21  3	Oil Changed		Client Info		Changed	Changed	
PQ  ASTM D8184  202  46     Iron  ppm  ASTM D5185m  >200  414  140     Chromium  ppm  ASTM D5185m  >10  4  <1     Nickel  ppm  ASTM D5185m  >10  1  <1     Nickel  ppm  ASTM D5185m  >10  0  0     Silver  ppm  ASTM D5185m  >25  2  <1     Aluminum  ppm  ASTM D5185m  >20  0  0     Lead  ppm  ASTM D5185m  >20  2  0     Vanadium  ppm  ASTM D5185m  >20  2  0     White Metal  scalar  'Visual  NONE  NONE  NONE     Yellow Metal  scalar  'Visual  NONE  NONE  NONE     Silicon  ppm  ASTM D5185m  >20  21  3 </th <th>Filter Changed</th> <th></th> <th>Client Info</th> <th></th> <th>N/A</th> <th>Changed</th> <th></th>	Filter Changed		Client Info		N/A	Changed	
Iron  ppm  ASTM D5185m  >200  414  140     Chromium  ppm  ASTM D5185m  >10  4  <1     Nickel  ppm  ASTM D5185m  >10  1  <1     Titanium  ppm  ASTM D5185m  0  0     Silver  ppm  ASTM D5185m  >25  2  <1     Aluminum  ppm  ASTM D5185m  >50  0  0     Lead  ppm  ASTM D5185m  >200  2  0     Lead  ppm  ASTM D5185m  >200  2  0     Vanadium  ppm  ASTM D5185m<>10  8  0      Yellow Metal  scalar  "Visual  NONE  NONE  NONE     Yellow Metal  scalar  "Visual  NONE  NONE  NONE     Yellow Metal  scalar  "Visual  NONE <th>Sample Status</th> <th></th> <th></th> <th></th> <th>NORMAL</th> <th>NORMAL</th> <th></th>	Sample Status				NORMAL	NORMAL	
Iron  ppm  ASTM D5185m  >200  414  140     Chromium  ppm  ASTM D5185m  >10  4  <1     Nickel  ppm  ASTM D5185m  >10  1  <1     Titanium  ppm  ASTM D5185m  0  0     Aluminum  ppm  ASTM D5185m  >25  2  <1     Aluminum  ppm  ASTM D5185m  >50  0  0     Lead  ppm  ASTM D5185m  >200  2  0     Lead  ppm  ASTM D5185m  >200  2  0     Vanadium  ppm  ASTM D5185m<>10  8  0     Yellow Metal  scalar  "Visual  NONE  NONE  NONE     Yellow Metal  scalar  "Visual  NONE  NONE  NONE     Yellow Metal  scalar  "Visual  NONE  NONE </th <th></th> <th></th> <th></th> <th></th> <th></th> <th>40</th> <th></th>						40	
Chromium  ppm  ASTM D5185m  >10  4  <1				000	-	-	
Nickel  ppm  ASTM D5185m  >10  1  <1	-					-	
Titanium  ppm  ASTM D5185m  <1					-		
Silver  ppm  ASTM D5185m  0  0     Aluminum  ppm  ASTM D5185m<>25  2  <1     Lead  ppm  ASTM D5185m<>200  2  0     Copper  ppm  ASTM D5185m  >200  2  0     Tin  ppm  ASTM D5185m  >200  2  0     Vanadium  ppm  ASTM D5185m  >10  8  0     Vanadium  ppm  ASTM D5185m  >10  8  0     Vanadium  ppm  ASTM D5185m  >50  3  5     Yellow Metal  scalar  *Visual  NONE  NONE  NONE     Silicon  ppm  ASTM D5185m  >20  21  3     Water  WC Method  >0.2  NEG  NORE     Debris  scalar  *Visual  NORML  NORML  NORE				>10	-		
Aluminum  ppm  ASTM D5185m  >25  2  <1						-	
Lead  ppm  ASTM D5185m  >50  0  0     Copper  ppm  ASTM D5185m  >200  2  0     Tin  ppm  ASTM D5185m  >10  8  0     Vanadium  ppm  ASTM D5185m   <1  0     White Metal  scalar  *Visual  NONE  NONE  NONE     Yellow Metal  scalar  *Visual  NONE  NONE  NONE     Silicon  ppm  ASTM D5185m  >50  3  5     Silicon  ppm  ASTM D5185m  >20  21  3     Water  WC Method  >0.2  NEG  NEG     Silit  scalar  *Visual  NONE  NONE  NORE     Appearance  scalar  *Visual  NORML  NORML  NORML     Appearance  scalar  *Visual  NOR		ppm			-		
Copper  ppm  ASTM D5185m  >200  2  0     Tin  ppm  ASTM D5185m  >10  8  0     Vanadium  ppm  ASTM D5185m  >10  8  0     White Metal  scalar  *Visual  NONE  NONE  NONE     Yellow Metal  scalar  *Visual  NONE  NONE  NONE     Silicon  ppm  ASTM D5185m  >50  3  5     Silicon  ppm  ASTM D5185m  >20  21  3     Water  WC Method  >0.2  NEG  NEG     Silit  scalar  *Visual  NONE  NONE  NONE     Debris  scalar  *Visual  NOR  NORML  NORML     Appearance  scalar  *Visual  NORML  NORML  NORML     Boron  ppm  ASTM D5185m  0 <th></th> <th></th> <th></th> <th></th> <th>_</th> <th></th> <th></th>					_		
TinppmASTM D5185m>1080VanadiumppmASTM D5185m<10White Metalscalar*VisualNONENONENONEYellow Metalscalar*VisualNONENONENONESiliconppmASTM D5185m>5035PotassiumppmASTM D5185m>20213WaterWC Method>0.2NEGNEGSilitscalar*VisualNONENONENONEDebrisscalar*VisualNONENONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLSodiumppmASTM D5185m00BoronppmASTM D5185m50MagnesiumppmASTM D5185m102MagnesiumppmASTM D5185m73PhosphorusppmASTM D5185m13319PhosphorusppmASTM D5185m464SolifurppmASTM D5185m133112		ppm			-	0	
VanadiumppmASTM D5185m<1		ppm		>200	_	-	
White Metalscalar*VisualNONENONENONEYellow Metalscalar*VisualNONENONENONESiliconppmASTM D5185m>5035PotassiumppmASTM D5185m>20213WaterWC Method>0.2NEGNEGSilitscalar*VisualNONENONENONEDebrisscalar*VisualNONENONENONESand/Dirtscalar*VisualNONENONENONEAppearancescalar*VisualNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLSodiumppmASTM D5185m00BoronppmASTM D5185m50MalganeseppmASTM D5185m102MagnesiumppmASTM D5185m13319PhosphorusppmASTM D5185m13319PhosphorusppmASTM D5185m464Visc @ 40°CcStASTM D5185m2157415361		ppm		>10		0	
Yellow Metalscalar*VisualNONENONENONESiliconppmASTM D5185m>5035PotassiumppmASTM D5185m>20213WaterWC Method>0.2NEGNEGSiltscalar*VisualNONENONENONEDebrisscalar*VisualNONENONENONESand/Dirtscalar*VisualNONENONENONEAppearancescalar*VisualNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGSodiumppmASTM D5185m00BoronppmASTM D5185m50MalganeseppmASTM D5185m102MagnesiumppmASTM D5185m13319PhosphorusppmASTM D5185m464ZincppmASTM D5185m464Visc @ 40°CcStASTM D5185m112	Vanadium	ppm	ASTM D5185m		<1	0	
SiliconppmASTM D5185m>5035PotassiumppmASTM D5185m>20213WaterWC Method>0.2NEGNEGSiltscalar*VisualNONENONENONEDebrisscalar*VisualNONELIGHTNONESand/Dirtscalar*VisualNONENONENONEAppearancescalar*VisualNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGSodiumppmASTM D5185m00BoronppmASTM D5185m50MolybdenumppmASTM D5185m102MaganeseppmASTM D5185m73MagnesiumppmASTM D5185m13319PhosphorusppmASTM D5185m464ZincppmASTM D5185m464SulfurppmASTM D5185m464Visc @ 40°CcStASTM D44514187.3112	White Metal	scalar	*Visual	NONE	NONE	NONE	
PotassiumppmASTM D5185m>20213WaterWC Method>0.2NEGNEGSiltscalar*VisualNONENONENONEDebrisscalar*VisualNONELIGHTNONESand/Dirtscalar*VisualNONENONENONEAppearancescalar*VisualNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGSodiumppmASTM D5185m00BoronppmASTM D5185m13MalganeseppmASTM D5185m102MagnesiumppmASTM D5185m13319PhosphorusppmASTM D5185m4464ZincppmASTM D5185m4464Visc @ 40°CcStASTM D44514187.3112	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
PotassiumppmASTM D5185m>20213WaterWC Method>0.2NEGNEGSiltscalar*VisualNONENONENONEDebrisscalar*VisualNONELIGHTNONESand/Dirtscalar*VisualNONENONENONEAppearancescalar*VisualNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGSodiumppmASTM D5185m00BoronppmASTM D5185m13MalganeseppmASTM D5185m102MagnesiumppmASTM D5185m13319PhosphorusppmASTM D5185m4464ZincppmASTM D5185m4464Visc @ 40°CcStASTM D44514187.3112	Silicon	nom	ASTM D5185m	>50	3	5	
WaterWC Method>0.2NEGNEGSiltscalar*VisualNONENONENONEDebrisscalar*VisualNONELIGHTNONESand/Dirtscalar*VisualNONENONENONEAppearancescalar*VisualNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLOdorscalar*Visual>0.2NEGEmulsified Waterscalar*Visual>0.2NEGSodiumppmASTM D5185m00BoronppmASTM D5185m00MolybdenumppmASTM D5185m10<MaganeseppmASTM D5185m102MagnesiumppmASTM D5185m13319PhosphorusppmASTM D5185m464SulfurppmASTM D5185m464Visc @ 40°CcStASTM D5185m112					-	-	
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Debrisscalar*VisualNONELIGHTNONESand/Dirtscalar*VisualNORENONENONEAppearancescalar*VisualNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGSodiumppmASTM D5185m00BoronppmASTM D5185m13BariumppmASTM D5185m0<1MalganeseppmASTM D5185m102MagnesiumppmASTM D5185m13319PhosphorusppmASTM D5185m464SulfurppmASTM D5185m112		scalar					
Sand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGSodiumppmASTM D5185m00BoronppmASTM D5185m13BariumppmASTM D5185m50MolybdenumppmASTM D5185m102MagnesiumppmASTM D5185m102MagnesiumppmASTM D5185m13319PhosphorusppmASTM D5185m464ZincppmASTM D5185m464SulfurppmASTM D5185m112					-	_	
Appearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGSodiumppmASTM D5185m00BoronppmASTM D5185m13BariumppmASTM D5185m50MolybdenumppmASTM D5185m0<MaganeseppmASTM D5185m102MagnesiumppmASTM D5185m13319PhosphorusppmASTM D5185m464ZincppmASTM D5185m464SulfurppmASTM D5185m112					-	-	
Odorscalar*VisualNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGSodiumppmASTM D5185m00BoronppmASTM D5185m13BariumppmASTM D5185m50MolybdenumppmASTM D5185m0<1ManganeseppmASTM D5185m102MagnesiumppmASTM D5185m73CalciumppmASTM D5185m13319PhosphorusppmASTM D5185m464SulfurppmASTM D5185m112					_		
Emulsified Water  scalar  *Visual  >0.2  NEG  NEG     Sodium  ppm  ASTM D5185m  0  0     Boron  ppm  ASTM D5185m  1  3     Barium  ppm  ASTM D5185m  5  0     Molybdenum  ppm  ASTM D5185m  0     Manganese  ppm  ASTM D5185m  0     Magnesium  ppm  ASTM D5185m  10  2     Magnesium  ppm  ASTM D5185m  10  2     Phosphorus  ppm  ASTM D5185m  133  19     Phosphorus  ppm  ASTM D5185m  411  416     Sulfur  ppm  ASTM D5185m  46  4     Sulfur  ppm  ASTM D5185m  21574  15361     Visc @ 40°C  cSt  ASTM D445  141  87.3  112			*Visual		-	-	
Sodium  ppm  ASTM D5185m  0  0     Boron  ppm  ASTM D5185m  1  3     Barium  ppm  ASTM D5185m  5  0     Molybdenum  ppm  ASTM D5185m  0     Manganese  ppm  ASTM D5185m  10  2     Magnesium  ppm  ASTM D5185m  10  2     Magnesium  ppm  ASTM D5185m  133  19     Calcium  ppm  ASTM D5185m  411  416     Phosphorus  ppm  ASTM D5185m  46  4     Sulfur  ppm  ASTM D5185m  21574  15361     Visc @ 40°C  cSt  ASTM D445  141  87.3  112	Emulsified Water	scalar		>0.2	-	NEG	
Boron  ppm  ASTM D5185m  1  3     Barium  ppm  ASTM D5185m  5  0     Molybdenum  ppm  ASTM D5185m  0     Manganese  ppm  ASTM D5185m  0  <    Magnesium  ppm  ASTM D5185m  10  2     Magnesium  ppm  ASTM D5185m  7  3     Calcium  ppm  ASTM D5185m  133  19     Phosphorus  ppm  ASTM D5185m  411  416     Zinc  ppm  ASTM D5185m  46  4     Sulfur  ppm  ASTM D5185m  21574  15361     Visc @ 40°C  cSt  ASTM D445  141  87.3  112							
Barium  ppm  ASTM D5185m  5  0     Molybdenum  ppm  ASTM D5185m  0  <	Sodium	ppm	ASTM D5185m		0	0	
Molybdenum  ppm  ASTM D5185m  0  <1	Boron	ppm	ASTM D5185m		1	3	
Manganese  ppm  ASTM D5185m  10  2     Magnesium  ppm  ASTM D5185m  7  3     Calcium  ppm  ASTM D5185m  133  19     Phosphorus  ppm  ASTM D5185m  411  416     Zinc  ppm  ASTM D5185m  46  4     Sulfur  ppm  ASTM D5185m  21574  15361     Visc @ 40°C  cSt  ASTM D445  141  87.3  112	Barium	ppm	ASTM D5185m		5	0	
Magnesium  ppm  ASTM D5185m  7  3     Calcium  ppm  ASTM D5185m  133  19     Phosphorus  ppm  ASTM D5185m  411  416     Zinc  ppm  ASTM D5185m  46  4     Sulfur  ppm  ASTM D5185m  21574  15361     Visc @ 40°C  cSt  ASTM D445  141  87.3  112	Molybdenum	ppm	ASTM D5185m		0	<1	
Calcium  ppm  ASTM D5185m  133  19     Phosphorus  ppm  ASTM D5185m  411  416     Zinc  ppm  ASTM D5185m  46  4     Sulfur  ppm  ASTM D5185m  21574  15361     Visc @ 40°C  cSt  ASTM D445  141  87.3  112	Manganese	ppm	ASTM D5185m		10	2	
Phosphorus  ppm  ASTM D5185m  411  416     Zinc  ppm  ASTM D5185m  46  4     Sulfur  ppm  ASTM D5185m  21574  15361     Visc @ 40°C  cSt  ASTM D445  141  87.3  112	Magnesium	ppm	ASTM D5185m		7	3	
Zinc  ppm  ASTM D5185m  46  4     Sulfur  ppm  ASTM D5185m  21574  15361     Visc @ 40°C  cSt  ASTM D445  141  87.3  112	Calcium	ppm	ASTM D5185m		133	19	
Sulfur  ppm  ASTM D5185m  21574  15361     Visc @ 40°C  cSt  ASTM D445  141  87.3  112	Phosphorus	ppm	ASTM D5185m		411	416	
Visc @ 40°C cSt ASTM D445 141 87.3 112	Zinc	ppm	ASTM D5185m		46	4	
-	Sulfur	ppm	ASTM D5185m		21574	15361	
	Visc @ 40°C	cSt	ASTM D445	141			

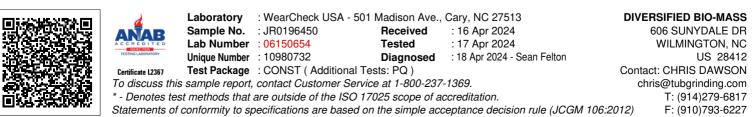
Report Id: DIVWIL [WUSCAR] 06150654 (Generated: 04/18/2024 14:20:28) Rev: 1

Contact/Location: CHRIS DAWSON - DIVWIL









Contact/Location: CHRIS DAWSON - DIVWIL Page 2 of 2