

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

Machine Id **426139** Component **2 Differential** Fluid **GEAR OIL SAE 75W90 (--- GAL)**

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. (Customer Sample Comment: 2nd Axle / Tag)

WEAR

All component wear rates are normal.

CONTAMINATION

There is no indication of any contamination in the oil.

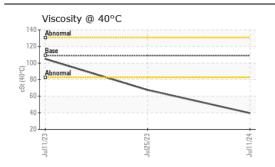
FLUID CONDITION

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

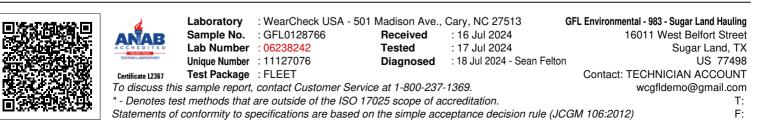
Sample DateClient InfoIn Jul 202425 Jul 202311 Jul 2024Machine AgemlsClient Info227368217792217792217792Oil AgemlsClient Info227368000Oil ChangedClient InfoNot ChangdChangedChangedFilter AgemlsClient InfoNot ChangdChangedChangedFilter ChangedClient InfoNot ChangdN/AN/ASample StatusVClient InfoNot ChangdN/AN/AIronppmASTM D5185m>50074555332ChromiumppmASTM D5185m>10C1<113NickelppmASTM D5185m>100<11<11SilverppmASTM D5185m>255<1432LeadppmASTM D5185m>25000<11VanadiumppmASTM D5185m>100<1<12TinppmASTM D5185m>1000<1<12SiliconppmASTM D5185m>1000<1<1Yellow Metalscalar*VisualNONENONENONENONENONESiliconppmASTM D5185m>75131693<1Yellow Metalscalar*VisualNONENONENONENONENONESiliconppmASTM D5185m>75131693<							
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Oil Age Filter AgemisClient Into227368217792217792Filter AgemisClient Into22736800Oil ChangedClient IntoNot ChangedChangedChangedFilter Changed1Client IntoNot ChangedN/AN/ASample StatusStill D518sm>50074555332IronppmASTM D518sm>10<1<13NickelppmASTM D518sm>100<1<1SilverppmASTM D518sm>255<132LeadppmASTM D518sm>25000AuminumppmASTM D518sm>100<12TinppmASTM D518sm>100<12VandaulumppmASTM D518sm>10000VandaulumppmASTM D518sm>10000VandaulumppmASTM D518sm>10000VandaulumppmASTM D518sm>75131693Valow Metalscalar'VisualNONENONENONENONESiliconppmASTM D518sm>20<1<14VaterVisualNONENONENONENONESiliconppmASTM D518sm>20<1<14VaterVisualNONENONENONENONESodiumppm </th <th>Sample Date</th> <th></th> <th>Client Info</th> <th></th> <th>11 Jul 2024</th> <th>25 Jul 2023</th> <th>11 Jul 2023</th>	Sample Date		Client Info		11 Jul 2024	25 Jul 2023	11 Jul 2023
Filter Age Oli ChangedClient Info22736800Oil ChangedClient InfoNot ChangedChangedChangedFilter ChangedClient InfoNot ChangedN/AN/ASample StatusNormiumppmASTM D5185m>5007455332IronppmASTM D5185m>10<	Machine Age	mls	Client Info		227368	217792	217792
Oil ChangedClient InfoNot ChangedChangedChangedChangedFilter ChangedClient InfoNot ChangedN/AN/AN/ASample StatusNORMALNORMALABNORMALABNORMALIronppmASTM D5185m>5007455332ChromiumppmASTM D5185m>10<	Oil Age	mls	Client Info		227368	217792	217792
Filter ChangedClient InfoNot ChangeNor ANASample StatusClient InfoNor RMALNORMALABNORMALIronppmASTM D5185m>5007455533.2ChromiumppmASTM D5185m>10c1c13NickelppmASTM D5185m>100c1c1TitaniumppmASTM D5185m>100c1c1SilverppmASTM D5185m>255c132LeadppmASTM D5185m>100c1c122ChopperppmASTM D5185m>100c1c122TinppmASTM D5185m>1000c1c1VanadiumppmASTM D5185m>1000c1VanadiumppmASTM D5185m>7513164Vellow Metalscalar"VisualNONENONENONENONESiliconppmASTM D5185m>20c1c14WaterWC Method>.2NEGNONENONESiliconppmASTM D5185m>20c1c14WaterVisualNONENONENONENONESolidscalar"VisualNONENONENONENONESolidonppmASTM D5185m>22NEGNONENONESolidonppmASTM D5185m22NEGNONENONESolidon<	Filter Age	mls	Client Info		227368	0	0
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Iron ppm ASTM D5185m >500 74 553 332 Chromium ppm ASTM D5185m >10 <1 3 Nickel ppm ASTM D5185m >10 0 <1 <1 Titanium ppm ASTM D5185m >10 0 <1 <1 Silver ppm ASTM D5185m >25 5 <1 32 Lead ppm ASTM D5185m >25 0 0 0 Copper ppm ASTM D5185m >100 <1 <1 22 Tin ppm ASTM D5185m >100 0 0 0 Vanadium ppm ASTM D5185m >10 0 0 0 Vanadium ppm ASTM D5185m >10 0 0 0 Vanadium ppm ASTM D5185m >75 13 16 4 Vanadium ppm ASTM D5185m >20 <1 1 4<	Filter Changed		Client Info		Not Changd	N/A	N/A
Chromium ppm ASTM D5185m >10 <1	Sample Status				NORMAL	NORMAL	ABNORMAL
Chromium ppm ASTM D5185m >10 <1	lron			. 500	74		
NickelppmASTM D5185m>100<1	-						
TitaniumppmASTM D5185m00<1							
Silver ppm ASTM D5185m 0 0 0 Aluminum ppm ASTM D5185m >25 5 <1 32 Lead ppm ASTM D5185m >25 0 0 0 Copper ppm ASTM D5185m >100 <1 <1 2 Tin ppm ASTM D5185m >100 0 0 0 Vanadium ppm ASTM D5185m >10 0 0 0 Vanadium ppm ASTM D5185m >10 0 0 0 0 Vanadium ppm ASTM D5185m >75 13 16 93 Yellow Metal scalar *Visual NONE NONE NONE NONE Silicon ppm ASTM D5185m >20 <1 <1 4 Water wC Method >.2 NEG NEG NORE Debris scalar *Visual NORE NONE NORM				>10	-		
Aluminum ppm ASTM D5185m >25 5 <1							
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Copper ppm ASTM D5185m >100 <1							
Tin ppm ASTM D5185m >10 O 0 <11					•	-	
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Sand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>.2NEGNEGNEGNEGSodiumppmASTM D5185m400258197BariumppmASTM D5185m200<10<1MolybdenumppmASTM D5185m1212<1MagnesiumppmASTM D5185m12100CalciumppmASTM D5185m15018313722PhosphorusppmASTM D5185m1252832581258ZincppmASTM D5185m12528325822SulfurppmASTM D5185m225003615239122042	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearancescalar*VisualNORML<	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Odorscalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>.2NEGNEGNEGSodiumppmASTM D5185m20258197BariumppmASTM D5185m200<10<1MolybdenumppmASTM D5185m1212<1ManganeseppmASTM D5185m1212<1MagnesiumppmASTM D5185m12<100CalciumppmASTM D5185m15018313722PhosphorusppmASTM D5185m1252832581258ZincppmASTM D5185m12528325822SulfurppmASTM D5185m225003615239122042	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Emulsified Waterscalar*Visual>.2NEGNEGNEGSodiumppmASTM D5185m204BoronppmASTM D5185m400258197BariumppmASTM D5185m200<10<1MolybdenumppmASTM D5185m1212<1ManganeseppmASTM D5185m12100CalciumppmASTM D5185m12<100CalciumppmASTM D5185m15018313722PhosphorusppmASTM D5185m16503782581258ZincppmASTM D5185m12528325822SulfurppmASTM D5185m225003615239122042	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Sodium ppm ASTM D5185m 2 0 4 Boron ppm ASTM D5185m 400 25 8 197 Barium ppm ASTM D5185m 200 <1 0 <1 Molybdenum ppm ASTM D5185m 200 <1 0 <1 Manganese ppm ASTM D5185m 12 1 2 <1 Magnesium ppm ASTM D5185m 12 <1 0 0 Calcium ppm ASTM D5185m 12 <1 0 0 Phosphorus ppm ASTM D5185m 12 <1 0 0 Itali ppm ASTM D5185m 12 <1 0 0 Calcium ppm ASTM D5185m 150 183 137 22 Phosphorus ppm ASTM D5185m 125 283 258 1258 Zinc ppm ASTM D5185m 125 283 258	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Boron ppm ASTM D5185m 400 25 8 197 Barium ppm ASTM D5185m 200 <1 0 <1 Molybdenum ppm ASTM D5185m 200 <1 0 <1 Manganese ppm ASTM D5185m 12 1 2 <1 Magnesium ppm ASTM D5185m 12 <1 0 0 Calcium ppm ASTM D5185m 12 <1 0 0 Phosphorus ppm ASTM D5185m 150 183 137 22 Phosphorus ppm ASTM D5185m 1650 378 258 1258 Zinc ppm ASTM D5185m 125 283 258 22 Sulfur ppm ASTM D5185m 2500 3615 2391 22042	Emulsified Water	scalar	*Visual	>.2	NEG	NEG	NEG
Boron ppm ASTM D5185m 400 25 8 197 Barium ppm ASTM D5185m 200 <1 0 <1 Molybdenum ppm ASTM D5185m 200 <1 0 <1 Manganese ppm ASTM D5185m 12 1 2 <1 Magnesium ppm ASTM D5185m 12 <1 0 0 Calcium ppm ASTM D5185m 12 <1 0 0 Phosphorus ppm ASTM D5185m 150 183 137 22 Phosphorus ppm ASTM D5185m 1650 378 258 1258 Zinc ppm ASTM D5185m 125 283 258 22 Sulfur ppm ASTM D5185m 2500 3615 2391 22042	Sodium	mag	ASTM D5185m		2	0	4
Barium ppm ASTM D5185m 200 <1				400			
Molybdenum ppm ASTM D5185m 12 1 2 <1				200			
Manganese ppm ASTM D5185m 2 4 13 Magnesium ppm ASTM D5185m 12 <1	Molybdenum		ASTM D5185m	12		2	<1
Magnesium ppm ASTM D5185m 12 <1	-		ASTM D5185m		2	4	13
Calcium ppm ASTM D5185m 150 183 137 22 Phosphorus ppm ASTM D5185m 1650 378 258 1258 Zinc ppm ASTM D5185m 125 283 258 22 Sulfur ppm ASTM D5185m 22500 3615 2391 22042	Magnesium		ASTM D5185m	12	<1	0	0
Zinc ppm ASTM D5185m 125 283 258 22 Sulfur ppm ASTM D5185m 22500 3615 2391 22042	Calcium		ASTM D5185m	150	183	137	
Sulfur ppm ASTM D5185m 22500 3615 2391 22042	Phosphorus	ppm	ASTM D5185m	1650	378	258	1258
	Zinc	ppm	ASTM D5185m	125	283	258	22
Visc @ 40°C cSt ASTM D445 109 39.6 67.5 105	Sulfur	ppm	ASTM D5185m	22500	3615	2391	22042
	Visc @ 40°C	cSt	ASTM D445	109	39.6	67.5	105

Report Id: GFL983 [WUSCAR] 06238242 (Generated: 07/18/2024 12:22:08) Rev: 1

Submitted By: TECHNICIAN ACCOUNT



Ferrous Alloys 340 320 300 icke 280 260 240 220 200 - 180 a 160 140 120 100 80 60 40 20 0. Jul11/24 Non-ferrous Metals 10 lead maa Viscosity @ 40°C 140 130 120 110 100 cSt (40°C) 06 40 30 Jul11/23 -Jul11/24



Submitted By: TECHNICIAN ACCOUNT Page 2 of 2