

# [SWA543637] TADANO GR350XL 562450

Front Axle

GEAR OIL SAE 75W90 (--- GAL)

## RECOMMENDATION

Resample at the next service interval to monitor.

#### **WEAR**

All component wear rates are normal.

### CONTAMINATION

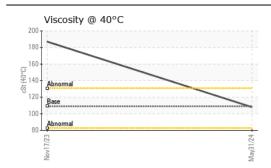
There is no indication of any contamination in the oil.

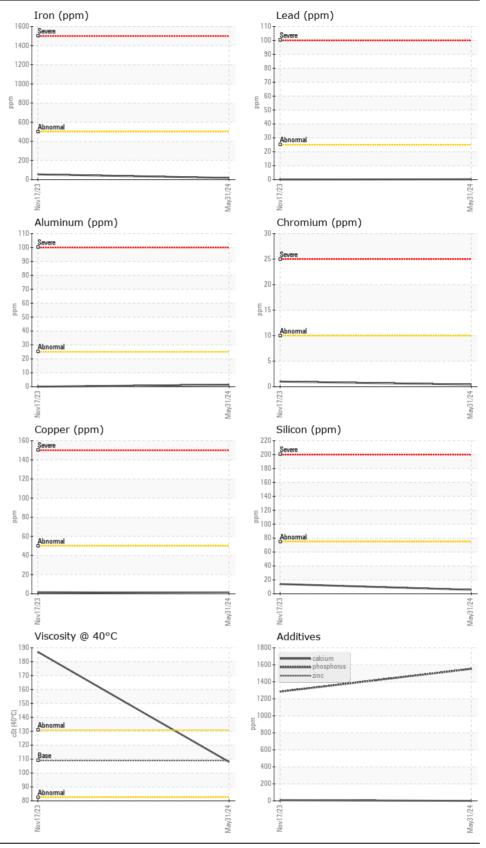
## FLUID CONDITION

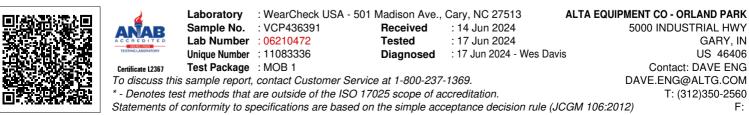
The condition of the oil is acceptable for the time in service.

TestUOMMethodLimitAbCurrentHistory1History1History1Sample NumberCClient IntoVCP436391VCP440533Sample DateCClient IntoJ1May202417 Nov 2023Machine AgehrsClient IntoQ0Oil AgehrsClient IntoQ0Filter AgehrsClient IntoCChangedNorRALFilter AngedIntoClient IntoChangedNorRALSample StatusClient IntoNorRMALNORMALChromiumppmASTM D5185>50011754NickelppmASTM D5185>10c11NickelppmASTM D5185>10c10SilverppmASTM D5185>20c10SilverppmASTM D5185>20c10AuminumppmASTM D5185>20c120NordeppmASTM D5185>20c120VanadiumppmASTM D5185>1000NordeppmASTM D5185>1000VanadiumppmASTM D5185>20c130NordeppmASTM D5185>1000SilconppmASTM D5185>1000							
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Oil Age Filter AgehrsClient InfoIo0Filter AgehrsClient InfoChangedChangedChangedChangedChangedGil ChangedClient InfoChangedNot ChangedChangedNot ChangedSample StatusStill DistismStoreNORMALIronppmASTM DistismStore111ChromiumppmASTM DistismStore111NickelppmASTM DistismStore0SilverppmASTM DistismStore10AluminumppmASTM DistismStore0AgeppmASTM DistismStore0AluminumppmASTM DistismStore0AgeppmASTM DistismStore0AluminumppmASTM DistismStore0AgeppmASTM DistismStore0VandariumppmASTM DistismStore0StoreppmASTM DistismStore0VandariumppmASTM DistismStore0StoreppmASTM DistismStore0StoreppmASTM DistismStore <th>Sample Date</th> <th></th> <th>Client Info</th> <th></th> <th>31 May 2024</th> <th>17 Nov 2023</th> <th></th>	Sample Date		Client Info		31 May 2024	17 Nov 2023	
Filter Age OII ChangedIsoClient InfoOOCilert InfoChangedChangedChangedChangedChangedFilter ChangedClient InfoChangedNot ChangedSample StatusVNORMALNORMALIronppmASTM DS185m>50017544NickelppmASTM DS185m>10c10NickelppmASTM DS185m>10c10SilverppmASTM DS185m>2510LeadppmASTM DS185m>50c10CopperppmASTM DS185m>50c10VanadiumppmASTM DS185m>1000VanadiumppmASTM DS185m>1000Vellow Metalscalar'VisualNONENONENONESiliconppmASTM DS185m>75614Vallow Metalscalar'VisualNONENONENONESiliconppmASTM DS185m>756144SullocinppmASTM DS185m>756144SullocinppmASTM DS185m>756144SullocinppmASTM DS185m>7576NORESullocinppmASTM DS185m>75 <th>Machine Age</th> <th>hrs</th> <th>Client Info</th> <th></th> <th>2164</th> <th>1147</th> <th></th>	Machine Age	hrs	Client Info		2164	1147	
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TitaniumppmASTM D5185m<1							
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AluminumppmASTM D5185m>2510LeadppmASTM D5185m>25<10CopperppmASTM D5185m>50<12TinppmASTM D5185m>1000VanadiumppmASTM D5185m>1000VanadiumppmASTM D5185m>1000VanadiumppmASTM D5185m>1000VanadiumppmASTM D5185m>756144Yellow Metalscalar*VisualNONENONENONESiliconppmASTM D5185m>756144Yellow Metalscalar*VisualNONENONENONESiliconppmASTM D5185m>20<10YetarVisualNONENONENONESilitscalar*VisualNORNONENONESand/Dirtscalar*VisualNORMNORMLNORMLAppearancescalar*VisualNORMNORMLNORMLGoronppmASTM D5185m2000<11SodiumppmASTM D5185m2000<11ManganeseppmASTM D5185m12<117<ManganeseppmASTM D5185m							
Lead  ppm  ASTM D5185m  >25  <1				>25	-	-	
Copper  ppm  ASTM D5185m  >50  <1					-	-	
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Yellow Metalscalar*VisualNONENONENONESiliconppmASTM D5185m>75614PotassiumppmASTM D5185m>20<100WaterWC Method>0.2NEGNEGSiltscalar*VisualNONENONENONEDebrisscalar*VisualNONENONENONESand/Dirtscalar*VisualNONENONENONEAppearancescalar*VisualNORMNORMLNORMLOdorscalar*VisualNORMNORMLNORMLSodiumppmASTM D5185m>0GBoronppmASTM D5185m2000<11ManganeseppmASTM D5185m12117MagnesiumppmASTM D5185m121284PhosphorusppmASTM D5185m12536SincppmASTM D5185m12536				NONE			
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Siltscalar*VisualNONENONENONEDebrisscalar*VisualNONENONELIGHTSand/Dirtscalar*VisualNONENONENONEAppearancescalar*VisualNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGSodiumppmASTM D5185m2000<11BoronppmASTM D5185m2000<11MalpaneseppmASTM D5185m12117MagnesiumppmASTM D5185m15009PhosphorusppmASTM D5185m15009SulfurppmASTM D5185m12536SulfurppmASTM D5185m12536	Potassium	ppm	ASTM D5185m	>20	<1	0	
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Odorscalar*VisualNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGSodiumppmASTM D5185m<12BoronppmASTM D5185m400342225BariumppmASTM D5185m2000<11MolybdenumppmASTM D5185m12<144ManganeseppmASTM D5185m12<10MagnesiumppmASTM D5185m12<10PhosphorusppmASTM D5185m15009PhosphorusppmASTM D5185m12536SulfurppmASTM D5185m12521678	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Emulsified Water  scalar  *Visual  >0.2  NEG  NEG     Sodium  ppm  ASTM D5185m  400  342  225     Boron  ppm  ASTM D5185m  400  342  225     Barium  ppm  ASTM D5185m  200  0  <1     Molybdenum  ppm  ASTM D5185m  12  <1  4     Manganese  ppm  ASTM D5185m  12  <1  0     Magnesium  ppm  ASTM D5185m  12  <1  0     Phosphorus  ppm  ASTM D5185m  150  0  9     Phosphorus  ppm  ASTM D5185m  150  0  9     Sulfur  ppm  ASTM D5185m  1650  1552  1284     Sulfur  ppm  ASTM D5185m  125  3  6	Appearance	scalar	*Visual	NORML	NORML	NORML	
Sodium  ppm  ASTM D5185m  <1	Odor	scalar	*Visual	NORML	NORML	NORML	
Boron  ppm  ASTM D5185m  400  342  225     Barium  ppm  ASTM D5185m  200  0  <1     Molybdenum  ppm  ASTM D5185m  200  0  <1     Manganese  ppm  ASTM D5185m  12  <1  4     Magnesium  ppm  ASTM D5185m  12  <1  0     Calcium  ppm  ASTM D5185m  12  <1  0     Phosphorus  ppm  ASTM D5185m  150  0  9     Zinc  ppm  ASTM D5185m  150  152  1284     Sulfur  ppm  ASTM D5185m  125  3  6	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
Barium  ppm  ASTM D5185m  200  0  <1	Sodium	ppm	ASTM D5185m		<1	2	
Barium  ppm  ASTM D5185m  200  0  <1	Boron		ASTM D5185m	400	342	225	
Manganese  ppm  ASTM D5185m  1  7     Magnesium  ppm  ASTM D5185m  12  <1	Barium	ppm	ASTM D5185m	200	0	<1	
Magnesium  ppm  ASTM D5185m  12  <1	Molybdenum	ppm	ASTM D5185m	12	<1	4	
Magnesium  ppm  ASTM D5185m  12  <1	Manganese		ASTM D5185m		1	7	
Phosphorus  ppm  ASTM D5185m  1650  1552  1284     Zinc  ppm  ASTM D5185m  125  3  6     Sulfur  ppm  ASTM D5185m  22500  27459  21678	Magnesium		ASTM D5185m	12	<1	0	
Zinc  ppm  ASTM D5185m  125  3  6     Sulfur  ppm  ASTM D5185m  22500  27459  21678	Calcium		ASTM D5185m	150		9	
Zinc  ppm  ASTM D5185m  125  3  6     Sulfur  ppm  ASTM D5185m  22500  27459  21678	Phosphorus		ASTM D5185m	1650	1552	1284	
Sulfur  ppm  ASTM D5185m  22500  27459  21678	Zinc		ASTM D5185m		3	6	
	Sulfur		ASTM D5185m		27459	21678	
	Visc @ 40°C		ASTM D445		108		

Contact/Location: DAVE ENG - VOLVO8885







Contact/Location: DAVE ENG - VOLVO8885 Page 2 of 2