

# WEAR ABNORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

#### Machine Id **TAKEUCHI TL12 412104262** Component Left Final Drive

GEAR OIL LS 80W90 (--- GAL)

## RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

### **WEAR**

Gear wear is indicated.

## CONTAMINATION

There is no indication of any contamination in the oil.

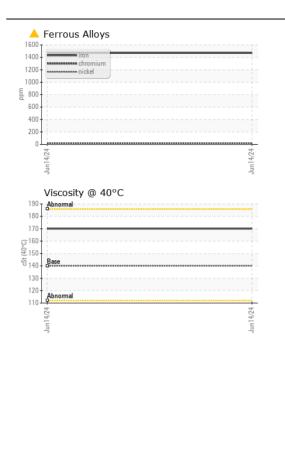
## FLUID CONDITION

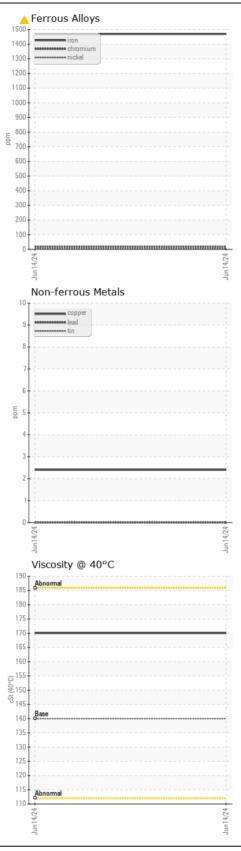
The condition of the oil is acceptable for the time in service.

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TestUOMMethodLimit/ACurrentHistory1History2Sample NumberClient InfoML002340Sample DateClient Info14 Jun 2024Machine AgehrsClient Info1403Mittory AgehrsClient Info0Filter AgehrsClient InfoN/AFilter AngedLClient InfoN/ASample StatusABNORMAChromiumppmASTM D5185>100A 1469NickelppmASTM D5185>100A 1469NickelppmASTM D5185>10A 1469SilverppmASTM D5185>10A 1469SilverppmASTM D5185>10A 1469SilverppmASTM D5185>10A 1469SilverppmASTM D5185>10A 1469SilverppmASTM D5185>10AuminumppmASTM D5185>10NordeppmASTM D5185>200VanadiumppmASTM D5185>10							
Sample DateClient Info14 Jun 2024Machine AgehrsClient Info1403Oil AgehrsClient Info0Filter AgehrsClient InfoN/AOil ChangedClient InfoN/AFilter ChangedClient InfoN/ASample StatusClient InfoN/ASample StatusABNORMAIronppmASTM D5185>500A14NickelppmASTM D5185>103NickelppmASTM D5185>103SilverppmASTM D5185>5010AluminumppmASTM D5185>5010AluminumppmASTM D5185>5010Yellow Metalscalar"VisualNONENONEYellow Metalscalar"VisualNONENONESiliconppmASTM D5185>2068Yellow Metalscalar"VisualNONENONESiliconppmASTM D5185>20ASiliconppmASTM D5185>20ASolicon <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 Oil AgehrsClient InfoI403Cil AgehrsClient Info0Filter AgehrsClient InfoN/AGil ChangedClient InfoN/AFilter ChangedQClient InfoN/ASample StatusASTM D518mS-00A 1469IronppmASTM D518mS-00A 1469NickelppmASTM D518m-10A 17NickelppmASTM D518m-10A 17SilverppmASTM D518m-10AAluminumppmASTM D518m-2510LeadppmASTM D518m-25AVanadiumppmASTM D518m-502VanadiumppmASTM D518m-50AVellow Metalscalar'VisualNONEASiliconppmASTM D518m-50ASiliconppmASTM D518m-50ASiliconppmASTM D518m-50ASiliconppmASTM D518m-50ASiliconppmASTM D518m	Sample Number		Client Info		ML0002340		
Oil AgehrsClient Info0Filter AgehrsClient InfoN/AOil ChangedClient InfoN/AFilter ChangedQClient InfoN/ASample StatusASTM D518mS-500A 1469IronppmASTM D518mS-500A 1469NickelppmASTM D518m-10A 17NickelppmASTM D518m-10A 17SilverppmASTM D518m-20A 1469AluminumppmASTM D518m-2510LeadppmASTM D518m-25A 0VanadiumppmASTM D518m-25A 0VanadiumppmASTM D518m-20AVanadiumppmASTM D518m-20AVanadiumppmASTM D518m-20AValuescalar'VisualNONEASiliconppmASTM D518m-20ASiliconppmASTM D518m-20ASiliconppmASTM D518m-20ASiliconppmASTM D518m-20NORE	Sample Date		Client Info		14 Jun 2024		
Filter Age OII ChangedICIENT INTOOCil ChangedCilent InfoN/AFilter ChangedCilent InfoN/ASample StatusCilent InfoN/AIronppmASTM D5185>500A 1469NickelppmASTM D5185>10A 17NickelppmASTM D5185>10ASilverppmASTM D5185>20AluminumppmASTM D5185>2510LeadppmASTM D5185>502CopperppmASTM D5185>502VanadiumppmASTM D5185>100VanadiumppmASTM D5185>5068Vellow Metalscalar'VisualNONENONESiliconppmASTM D5185>7568SiliconppmASTM D5185>7568SiliconppmASTM D5185>701SiliconppmASTM D5185>701SiliconppmASTM D5185>70168SiliconppmASTM D5185>70168SoliconppmAST	Machine Age	hrs	Client Info		1403		
Cili Changed Filter ChangedCilent InfoN/AFilter ChangedCilent InfoN/ASample StatusABNORMALIronppmASTM D5185m>500A 1469NickelppmASTM D5185m>10A 17NickelppmASTM D5185m>103SilverppmASTM D5185m>2510AluminumppmASTM D5185m>2510LeadppmASTM D5185m>502VanadiumppmASTM D5185m>502VanadiumppmASTM D5185m>100Vellow Metalscalar'VisualNONENONESiliconppmASTM D5185m>7568SiliconppmASTM D5185m>20AnoneSiliconppmASTM D5185m>20AnoneSiliconscalar'VisualNONENONESiliconppmASTM D5185m>20AnoneSiliconscalar'VisualNONENONESoliconscalar'VisualNONENONESoliconscalar'Visual	Oil Age	hrs	Client Info		0		
Filter ChangedClient InfoN/ASample StatusASTM D5185>500A1469IronpmASTM D5185>10A 17NickelpmASTM D5185>103NickelpmASTM D5185>103SilverpmASTM D5185>103AluminumpmASTM D5185>2510LeadpmASTM D5185>250CopperpmASTM D5185>502VanadiumpmASTM D5185>502VanadiumpmASTM D5185>500Veltow Metalscalar*VisualNONENONESiliconpmASTM D5185>204SiliconppmASTM D5185>204SiliconppmASTM D5185>204SiliconppmASTM D5185>204SiliconppmASTM D5185>204SiliconppmASTM D5185>20ASiliconppmASTM D5185>20ASiliconppmASTM D5185>20NONE	Filter Age	hrs	Client Info		0		
Sample Status  ABNORMAL      Iron  ppm  ASTM D5185  >500  A 1469      Chromium  ppm  ASTM D5185  >10  A 17      Nickel  ppm  ASTM D5185  >10  3      Silver  ppm  ASTM D5185  >10  10      Aluminum  ppm  ASTM D5185  >25  10      Lead  ppm  ASTM D5185  >25  0      Vanadium  ppm  ASTM D5185  >25  0	Oil Changed		Client Info		N/A		
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Chromium    ppm    ASTM D5185m    >10    ▲ 17        Nickel    ppm    ASTM D5185m    >10    3        Titanium    ppm    ASTM D5185m    >10        Silver    ppm    ASTM D5185m    >25    10        Aluminum    ppm    ASTM D5185m    >25    0        Lead    ppm    ASTM D5185m    >50    2        Vanadium    ppm    ASTM D5185m    >50    2        Vanadium    ppm    ASTM D5185m    >10    0        Vanadium    ppm    ASTM D5185m    >10    0        Vanadium    ppm    ASTM D5185m    >10    0        Vanadium    ppm    ASTM D5185m    >20    A        Valow    NOLE    NORE </th <th>Sample Status</th> <th></th> <th></th> <th></th> <th>ABNORMAL</th> <th></th> <th></th>	Sample Status				ABNORMAL		
Chromium    ppm    ASTM D5185m    >10    ▲ 17        Nickel    ppm    ASTM D5185m    >10    3        Titanium    ppm    ASTM D5185m    >10        Silver    ppm    ASTM D5185m    >25    10        Aluminum    ppm    ASTM D5185m    >25    0        Lead    ppm    ASTM D5185m    >50    2        Vanadium    ppm    ASTM D5185m    >50    2        Vanadium    ppm    ASTM D5185m    >10    0        Vanadium    ppm    ASTM D5185m    >10    0        Vanadium    ppm    ASTM D5185m    >10    0        Vanadium    ppm    ASTM D5185m    >20    A        Valow    NOLE    NORE </th <th>Iron</th> <th>maa</th> <th>ASTM D5185m</th> <th>&gt;500</th> <th><b>1469</b></th> <th></th> <th></th>	Iron	maa	ASTM D5185m	>500	<b>1469</b>		
NickelppmASTM D5185m>103TitaniumppmASTM D5185mSilverppmASTM D5185m>2510AluminumppmASTM D5185m>250LeadppmASTM D5185m>502CopperppmASTM D5185m>502TinppmASTM D5185m>00VanadiumppmASTM D5185m>00White Metalscalar*VisualNONENONESiliconppmASTM D5185m>7568SiliconppmASTM D5185m>204VaterWC Method>0.2NEGSiltscalar*VisualNONENONESodumppmASTM D5185m>7568SodumppmASTM D5185m>204SodiumppmASTM D5185m>20NONESodiumppmASTM D5185m>20NONESodiumppmASTM D5185m>20NONEAppearancescalar*VisualNORHNORHSodiumppmASTM D5185m100	-		ASTM D5185m				
TitaniumppmASTM D5185m<1	Nickel			>10			
SilverppmASTM D5185m0AluminumppmASTM D5185m>2510LeadppmASTM D5185m>250CopperppmASTM D5185m>502TinppmASTM D5185m>100VanadiumppmASTM D5185m>100White Metalscalar*VisualNONENONEYellow Metalscalar*VisualNONEMONESiliconppmASTM D5185m>7568SiliconppmASTM D5185m>7568SiliconppmASTM D5185m>7568SiliconppmASTM D5185m>7568SiliconppmASTM D5185m>7568Siliconscalar*VisualNONENORESadn/Dirtscalar*VisualNONENORESand/Dirtscalar*VisualNORNORMAppearancescalar*VisualNORNORMSodiumppmASTM D5185m1500BoronppmASTM D5185m102Marganese					-		
AluminumppmASTM D5185m>2510LeadppmASTM D5185m>250CopperppmASTM D5185m>502TinppmASTM D5185m>100VanadiumppmASTM D5185m>100White Metalscalar*VisualNONENONEYellow Metalscalar*VisualNONEMONESiliconppmASTM D5185m>7568Yellow Metalscalar*VisualNONEMEGSiliconppmASTM D5185m>204Yellow Metalscalar*VisualNONENONESiliconscalar*VisualNONENONESiliconscalar*VisualNONENONESolitscalar*VisualNONENONESolitscalar*VisualNONENORMLAppearancescalar*VisualNORMLNORMLSodiumppmASTM D5185m1500BariumppmASTM D5185m102MagneseppmASTM D5185m70114Magnesi							
Lead    ppm    ASTM D5185m    >25    0       Copper    ppm    ASTM D5185m    >50    2        Tin    ppm    ASTM D5185m    >10    0        Vanadium    ppm    ASTM D5185m    >10    0        White Metal    scalar    *Visual    NONE    NONE        Yellow Metal    scalar    *Visual    NONE    NONE        Silicon    ppm    ASTM D5185m    >75    68        Silicon    ppm    ASTM D5185m    >75    68        Silicon    ppm    ASTM D5185m    >20    4        Water    wC Method    >0.2    NEG        Solit    scalar    *Visual    NONE    NONE        Appearance    scalar    *Visual    NORM	Aluminum		ASTM D5185m	>25	-		
Copper    ppm    ASTM D5185m    >50    2        Tin    ppm    ASTM D5185m    >10    0        Vanadium    ppm    ASTM D5185m    >10    0        White Metal    scalar    *Visual    NONE    NONE        Yellow Metal    scalar    *Visual    NONE    NONE        Silicon    ppm    ASTM D5185m    >75    668        Potassium    ppm    ASTM D5185m    >20    4        Water    WC Method    >0.2    NEG        Silt    scalar    *Visual    NONE    NONE        Sand/Dirt    scalar    *Visual    NORM    NORML        Appearance    scalar    *Visual    NORML    NORML        Godr    scalar					-		
TinppmASTM D5185m>100VanadiumppmASTM D5185m0White Metalscalar*VisualNONENONEYellow Metalscalar*VisualNONENONESiliconppmASTM D5185m>75688PotassiumppmASTM D5185m>204WaterWC Method>0.2NEGSilitscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMNORMLGodrscalar*VisualNORMNORMLSodiumppmASTM D5185m500BariumppmASTM D5185m1500MolybdenumppmASTM D5185m14MaganesiumppmASTM D5185m7011PhosphorusppmASTM D5185m7011SulfurppmASTM D5185m7011SoliumppmASTM D5185m7011SoliumppmASTM D5185m7011ManganesiumppmASTM D5185m <td< th=""><th>Copper</th><th></th><th>ASTM D5185m</th><th>&gt;50</th><th>2</th><th></th><th></th></td<>	Copper		ASTM D5185m	>50	2		
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PotassiumppmASTM D5185m>204WaterWC Method>0.2NEGSiltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLGodrscalar*VisualNORMLNORMLSodiumppmASTM D5185m1500BoronppmASTM D5185m1500MolybdenumppmASTM D5185m114ManganeseppmASTM D5185m7011PhosphorusppmASTM D5185m2000225ZincppmASTM D5185m5054SulfurppmASTM D5185m200021750	Yellow Metal	scalar	*Visual	NONE	NONE		
PotassiumppmASTM D5185m>204WaterWC Method>0.2NEGSiltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLGodrscalar*VisualNORMLNORMLSodiumppmASTM D5185m1500BoronppmASTM D5185m1500MolybdenumppmASTM D5185m114ManganeseppmASTM D5185m7011PhosphorusppmASTM D5185m2000225ZincppmASTM D5185m5054SulfurppmASTM D5185m200021750							
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Debrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMNORMLOdorscalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGSodiumppmASTM D5185m50.2NEGBoronppmASTM D5185m1500BariumppmASTM D5185m1500MolybdenumppmASTM D5185m14MagnesiumppmASTM D5185m7011PhosphorusppmASTM D5185m7011PhosphorusppmASTM D5185m2000225ZincppmASTM D5185m5054SuffurppmASTM D5185m200021750	Water		WC Method	>0.2	NEG		
Sand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGSodiumppmASTM D5185m1500BoronppmASTM D5185m1500BariumppmASTM D5185m1500MolybdenumppmASTM D5185m14MagnesiumppmASTM D5185m7011PhosphorusppmASTM D5185m7011IncppmASTM D5185m2000225SulfurppmASTM D5185m5054SulfurppmASTM D5185m200021750SulfurppmASTM D5185m200021750	Silt	scalar	*Visual	NONE	NONE		
Appearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGSodiumppmASTM D5185m506BoronppmASTM D5185m1500BariumppmASTM D5185m1502MolybdenumppmASTM D5185m102ManganeseppmASTM D5185m1014MagnesiumppmASTM D5185m7011PhosphorusppmASTM D5185m2000225ZincppmASTM D5185m5054SulfurppmASTM D5185m200021750	Debris	scalar		NONE	NONE		
Normal Solution    Solution    Normal Nor	Sand/Dirt	scalar	*Visual		NONE		
Emulsified Water    scalar    *Visual    >0.2    NEG       Sodium    ppm    ASTM D5185m    6        Boron    ppm    ASTM D5185m    150    0        Barium    ppm    ASTM D5185m    150    0        Molybdenum    ppm    ASTM D5185m    C    14        Manganese    ppm    ASTM D5185m    10    2        Magnesium    ppm    ASTM D5185m    10    2        Phosphorus    ppm    ASTM D5185m    10    2        Phosphorus    ppm    ASTM D5185m    70    11        Zinc    ppm    ASTM D5185m    2000    225        Sulfur    ppm    ASTM D5185m    50    54		scalar	*Visual				
Sodium    ppm    ASTM D5185m    6       Boron    ppm    ASTM D5185m    150    0       Barium    ppm    ASTM D5185m    150    0       Barium    ppm    ASTM D5185m    12        Molybdenum    ppm    ASTM D5185m    C        Manganese    ppm    ASTM D5185m    10    2        Magnesium    ppm    ASTM D5185m    10    2        Phosphorus    ppm    ASTM D5185m    70    11        Zinc    ppm    ASTM D5185m    2000    225        Sulfur    ppm    ASTM D5185m    50    54	Odor	scalar	*Visual	NORML	NORML		
Boron    ppm    ASTM D5185m    150    0       Barium    ppm    ASTM D5185m    2        Molybdenum    ppm    ASTM D5185m    C    2        Manganese    ppm    ASTM D5185m    I         Magnesium    ppm    ASTM D5185m    10    2        Calcium    ppm    ASTM D5185m    10    2        Phosphorus    ppm    ASTM D5185m    70    11        Zinc    ppm    ASTM D5185m    2000    225        Sulfur    ppm    ASTM D5185m    50    54	Emulsified Water	scalar	*Visual	>0.2	NEG		
Barium    ppm    ASTM D5185m    2       Molybdenum    ppm    ASTM D5185m    <    <1       Manganese    ppm    ASTM D5185m    10    <1        Magnesium    ppm    ASTM D5185m    10    2        Calcium    ppm    ASTM D5185m    10    2        Phosphorus    ppm    ASTM D5185m    70    11        Zinc    ppm    ASTM D5185m    2000    225        Zinc    ppm    ASTM D5185m    50    54        Sulfur    ppm    ASTM D5185m    2000    21750	Sodium	ppm	ASTM D5185m		6		
Molybdenum    ppm    ASTM D5185m    <	Boron	ppm	ASTM D5185m	150	0		
Manganese    ppm    ASTM D5185m    14       Magnesium    ppm    ASTM D5185m    10    2       Calcium    ppm    ASTM D5185m    70    11        Phosphorus    ppm    ASTM D5185m    2000    225        Zinc    ppm    ASTM D5185m    50    54        Sulfur    ppm    ASTM D5185m    20000    21750	Barium	ppm	ASTM D5185m		2		
Magnesium    ppm    ASTM D5185m    10    2       Calcium    ppm    ASTM D5185m    70    11        Phosphorus    ppm    ASTM D5185m    2000    225        Zinc    ppm    ASTM D5185m    50    54        Sulfur    ppm    ASTM D5185m    20000    21750	Molybdenum	ppm	ASTM D5185m		<1		
Calcium    ppm    ASTM D5185m    70    11        Phosphorus    ppm    ASTM D5185m    2000    225        Zinc    ppm    ASTM D5185m    50    54        Sulfur    ppm    ASTM D5185m    20000    21750	Manganese		ASTM D5185m		14		
Phosphorus    ppm    ASTM D5185m    2000    225        Zinc    ppm    ASTM D5185m    50    54        Sulfur    ppm    ASTM D5185m    20000    21750	Magnesium	ppm	ASTM D5185m	10	2		
Zinc    ppm    ASTM D5185m    50    54       Sulfur    ppm    ASTM D5185m    20000    21750	Calcium	ppm	ASTM D5185m	70	11		
Sulfur    ppm    ASTM D5185m    20000    21750	Phosphorus	ppm	ASTM D5185m	2000	225		
	Zinc	ppm	ASTM D5185m	50	54		
Visc @ 40°C cSt ASTM D445 140 170	Sulfur	ppm	ASTM D5185m	20000	21750		
	Visc @ 40°C	cSt	ASTM D445	140	170		

Contact/Location: MIKE MAYHUGH - VOLVO0002





Received

Tested

MCCLUNG-LOGAN EQUIPMENT CO - MANASSAS : WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 08 Jul 2024 8450 QUARRY ROAD MANASSAS, VA : 10 Jul 2024 Diagnosed : 10 Jul 2024 - Sean Felton US 20110 Contact: MIKE MAYHUGH MMAYHUGH@MCCLUNG-LOGAN.COM To discuss this sample report, contact Customer Service at 1-800-237-1369. \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (703)393-7344 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (703)393-7844

Certificate L2367

Laboratory

Sample No.

Lab Number : 06230953

Unique Number : 11114446

Test Package : CONST

: ML0002340

Contact/Location: MIKE MAYHUGH - VOLVO0002 Page 2 of 2