

TAREA [74854 LAKE CONWAY] Machine Id TAKEUCHI TB230R 130008591

Component Diesel Engine

DIESEL ENGINE OIL SAE 15W40 (--- GAL)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP445668	VCP368647	
Sample Date		Client Info		19 Feb 2024	21 Oct 2022	
Machine Age	hrs	Client Info		1006	349	
Oil Age	hrs	Client Info		0	0	
Filter Age	hrs	Client Info		0	0	
-		Client Info		Changed	Changed	
		Client Info		Changed	Changed	
Sample Status				NORMAL	ATTENTION	
Iron	nnm	ASTM D5185m	>100	38	72	
			- 1		-	
			>3			
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
			~			
	ppm					
			>0.2			
	0/		0			
Sodium	ppm	ASTM D5185m	>158	4	16	
Boron	ppm	ASTM D5185m	250	10	33	
Barium	ppm	ASTM D5185m	10	0	0	
Molybdenum	ppm	ASTM D5185m	100	12	105	
Manganese	ppm	ASTM D5185m		<1	2	
Magnesium	ppm			89		
Calcium	ppm			2219	4137	
Phosphorus	ppm			846	1046	
Zinc	ppm			977	1373	
	ppm			3212	7265	
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.6	10.3	
	Sample Number Sample Date Machine Age Oil Age Filter Age Oil Changed Filter Changed Sample Status Iron Chromium Nickel Titanium Silver Aluminum Lead Copper Tin Vanadium White Metal Yellow Metal Yellow Metal Yellow Metal Yellow Metal Silicon Potassium Fuel Water Glycol Soot % Nitration Sulfation Sulfation Sulfation Sulfation Sulfation Sulfation Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	Sample NumberSample DateMachine AgehrsOil AgehrsOil AgehrsFilter AgehrsOil ChangedSample StatusFilter ChangedppmSample StatusppmIronppmChromiumppmNickelppmSilverppmAluminumppmLeadppmTinppmVanadiumppmVanadiumppmFuelscalarSiliconppmFuelypmSulfationAbs/.tmmSiltscalarSoot %%NitrationAbs/.tmmSiltscalarCopperscalarGlycolscalarSoot %%NitrationAbs/.tmmSiltscalarSand/DirtscalarAppearancescalarGoronppmMolybdenumppmManganeseppmMagnesiumppmPhosphorusppmSulfurppm	Sample NumberClient InfoSample DateClient InfoMachine AgehrsClient InfoOil AgehrsClient InfoFilter AgehrsClient InfoOil ChangedClient InfoFilter ChangedClient InfoSample StatusClient InfoSample StatusSilverIronppmASTM D5185mNickelppmASTM D5185mNickelppmASTM D5185mSilverppmASTM D5185mLeadppmASTM D5185mCopperppmASTM D5185mVanadiumppmASTM D5185mVanadiumppmASTM D5185mVanadiumppmASTM D5185mVanadiumppmASTM D5185mFuelWC MethodSiliconppmASTM D5185mFuelWC MethodGlycolWC MethodSoot %%*ASTM D7844NitrationAbs/.1mm*ASTM D7844NitrationAbs/.1mm*ASTM D7624SulfationAbs/.1mm*ASTM D7624SulfationAbs/.1mm*ASTM D7624SulfationAbs/.1mm*ASTM D5185mBoronppmASTM D5185mBoronppmASTM D5185mMagnesiumppmASTM D5185mMagnesiumppmASTM D5185mMagnesiumppmASTM D5185mPhosphorusppmASTM D5185mSulfurppmASTM D5185mSulfurppmASTM D	Sample NumberClient InfoSample DateClient InfoMachine AgehrsClient InfoOil AgehrsClient InfoFilter AgehrsClient InfoOil ChangedClient InfoFilter ChangedClient InfoSample StatusSample StatusIronppmASTM D5185mNickelppmASTM D5185mSilverppmASTM D5185mSilverppmASTM D5185mSilverppmASTM D5185mSilverppmASTM D5185mSilverppmASTM D5185mSilverppmASTM D5185mSilverppmASTM D5185mVanadiumppmASTM D5185mVanadiumppmASTM D5185mVanadiumppmASTM D5185mVanadiumppmASTM D5185mValowscalar*VisualVhite Metalscalar*VisualSiliconppmASTM D5185mVaterWC MethodSoot %%*ASTM D7624Soot %%*ASTM D7624SulfationAbs/rm*ASTM D7415Sand/Dirtscalar*VisualNORESalar*VisualAppearancescalar*VisualOdorscalar*VisualAppearancescalar*VisualOdorscalar*VisualManganeseppmASTM D5185m100ManganeseppmASTM D5185m1150	Sample NumberClient InfoVCP445668Sample DateClient Info19 Feb 2024Machine AgehrsClient Info0Oil AgehrsClient Info0Filter AgehrsClient Info0Oil ChangedClient Info0ChangedFilter AgeNrsClient Info0Gil ChangedClient InfoChangedSample StatusVORMALNORMALIronppmASTM D5185m>100Sample StatusSample Status>0NickelppmASTM D5185m>20ChromiumppmASTM D5185m>3OAluminumppmASTM D5185m>20SilverppmASTM D5185m>304TinppmASTM D5185m>3304TinppmASTM D5185m>3304TinppmASTM D5185m>100VanadiumppmASTM D5185m>200Yellow Metalscalar*VisualNONENONESiliconppmASTM D5185m>200FuelWC Method>5<1.0NONEVaterQWC Method>5.26PotassiumppmASTM D7624>209.0SulfationAbs/tm'ASTM D7624>209.0SulfationAbs/tm'ASTM D715>3020.4Siltscalar*VisualNONENONEAppearancescalar	Sample Number Client Info VCP445660 VCP368647 Sample Date Client Info 19 Feb 2024 21 Oct 2022 Machine Age hrs Client Info 0 0 Filter Age hrs Client Info 0 0 0 Oil Age hrs Client Info Changed

Base Number (BN) mg KOH/g ASTM D2896 8.5

ASTM D445 14.4

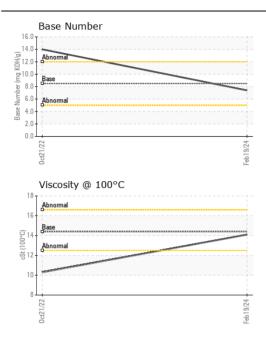
Visc @ 100°C cSt

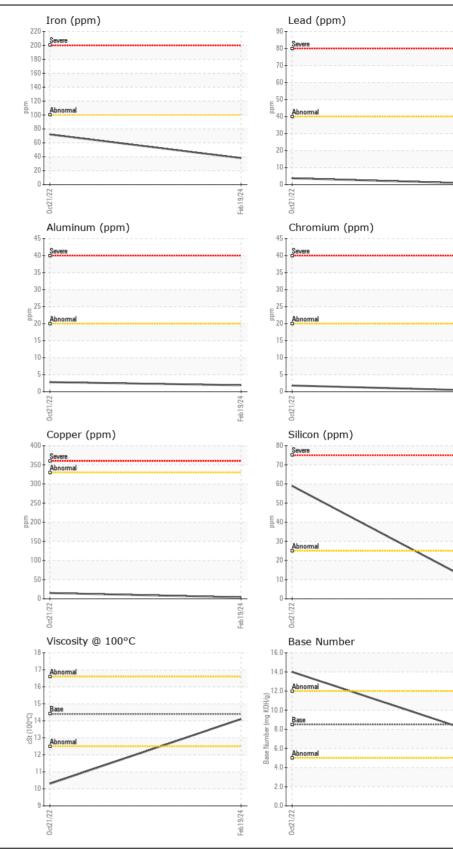
7.4

14.1

14.0

10.3





ALTA EQUIPMENT/FLAGLER CONSTRUCTION EQUIPMENT LLC Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : VCP445668 Received 8418 PALM RIVER ROAD : 23 Feb 2024 Lab Number : 06098210 Tested : 25 Feb 2024 TAMPA, FL Unique Number : 10896440 : 25 Feb 2024 - Wes Davis US 33619 Diagnosed Test Package : MOB 1 (Additional Tests: TBN) Contact: KENNY HANEY Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. khaney@flaglerce.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (813)630-0077 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (813)630-2233

Contact/Location: KENNY HANEY - VOLVO0093

Feb19/24

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