

Machine Id KIOTI CK3510SE TX0600128 Component **Diesel Engine**

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

RECOMMENDATION		
Resample at the next service interval	to monitor.	Ple

ease specify the brand, type, and viscosity of the oil on your next sample.

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Metal levels are typical for a new component breaking in.

CONTAMINATION

Elevated aluminum (AI) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

Test UOM Method Limit/An Current History1 History2 Sample Number Client Info XT001260 Sample Date Client Info 402 Oil Age hrs Client Info 0 Oil Age hrs Client Info 0 Oil Changed Client Info N/A Sample Status Client Info N/A Iron ppm ASTM D5185m<>->100 37 Iron ppm ASTM D5185m<>->10 -1 Nickel ppm ASTM D5185m<>->15 <1 Silver ppm ASTM D5185m<>>15 <1 Auminum ppm ASTM D5185m<>>25 <1 Silver ppm ASTM D5185m<>>25 28 <					~		
Sample Date Client Info 20 May 2024 Machine Age hrs Client Info 0 Oil Age hrs Client Info 0 Oil Changed Client Info N/A Gil Changed Client Info N/A Sample Status Viral N/A Iron ppm ASTM D5185m >100 37 Kickel ppm ASTM D5185m >20 2 Nickel ppm ASTM D5185m >20 12 Silver ppm ASTM D5185m >20 12 Capper ppm ASTM D5185m >20 12 Vanadium ppm ASTM D5185m >25 28 Vanadium ppm ASTM D5185m	Test	UOM	Method	Limit/Abn	Current	History1	History2
Machine Age hrs Client Info 402 Filter Age hrs Client Info 0 Filter Age hrs Client Info N/A Filter Changed Client Info N/A Sample Status Client Info N/A Iron ppm ASTM D5185m >100 37 Nickel ppm ASTM D5185m >20 2 Silver ppm ASTM D5185m >20 12 Aluminum ppm ASTM D5185m >20 12 Copper ppm ASTM D5185m >20 1 Vanadium ppm ASTM D5185m >25 28 Veltow Metal scalar Yuisual NONE NONE Veltow Metal	Sample Number		Client Info		KT0001260		
Oil Age hrs Client Info 0 Filter Age hrs Client Info N/A Oil Changed Client Info N/A Sample Status Client Info N/A Iron ppm ASTM D5185m >100 37 Chromium ppm ASTM D5185m >20 2 Nickel ppm ASTM D5185m >20 1 Silver ppm ASTM D5185m >20 12 Lead ppm ASTM D5185m >20 1 Vanadium ppm ASTM D5185m >21 Vanadium ppm ASTM D5185m >25 28 Veltow Metal scalar Visual NONE Veltow Metal sc	Sample Date		Client Info		20 May 2024		
Filter Age hrs Client Info 0 Oil Changed Client Info N/A Filter Changed Client Info N/A Sample Status Visual NORMAL Iron ppm ASTM D5185m >100 37 Chromium ppm ASTM D5185m >4 <1 Nickel ppm ASTM D5185m >3 <1 Silver ppm ASTM D5185m >30 12 Lead ppm ASTM D5185m >40 <1 Vanadium ppm ASTM D5185m >15 <1 Vellow Metal scalar Visual NONE Vellow Metal scalar Visual NONE Vellow Metal	Machine Age	hrs	Client Info		402		
Oil Changed Client Info N/A Filter Changed Client Info N/A Sample Status VIA Iron ppm ASTM D5185m >100 37 Nickel ppm ASTM D5185m >20 2 Nickel ppm ASTM D5185m >4 -1 Silver ppm ASTM D5185m >40 <1 Aluminum ppm ASTM D5185m >20 12 Vanadium ppm ASTM D5185m >40 <1 Vanadium ppm ASTM D5185m >10 Vanadium ppm ASTM D5185m >25 28 Silicon ppm ASTM D5185m >20 12 Fuel WC Method	Oil Age	hrs	Client Info		0		
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Sample Status NORMAL Iron ppm ASTM D5185m<>100 37 Chromium ppm ASTM D5185m >20 2 Nickel ppm ASTM D5185m >4 <1 Silver ppm ASTM D5185m >20 12 Aluminum ppm ASTM D5185m >20 12 Lead ppm ASTM D5185m >20 12 Copper ppm ASTM D5185m >330 2 Vanadium ppm ASTM D5185m >15 <1 Vanadium ppm ASTM D5185m >25 28 Veltow Metal scalar *Visual NONE Silicon ppm ASTM D7845 >20 12	Oil Changed		Client Info		N/A		
Sample Status NORMAL Iron ppm ASTM D5185m<>100 37 Chromium ppm ASTM D5185m >20 2 Nickel ppm ASTM D5185m >4 <1 Titanium ppm ASTM D5185m >20 12 Aluminum ppm ASTM D5185m >20 12 Lead ppm ASTM D5185m >20 11 Copper ppm ASTM D5185m >330 2 Vanadium ppm ASTM D5185m >15 <1 Vanadium ppm ASTM D5185m >25 28 Vellow Metal scalar *Visual NONE Silicon ppm ASTM D5185m >20 12 <th>Filter Changed</th> <th></th> <th>Client Info</th> <th></th> <th>N/A</th> <th></th> <th></th>	Filter Changed		Client Info		N/A		
Iron ppm ASTM D5185m >100 37 Chromium ppm ASTM D5185m >20 2 Nickel ppm ASTM D5185m >4 1 Titanium ppm ASTM D5185m >30 <1 Aluminum ppm ASTM D5185m >30 21 Lead ppm ASTM D5185m >40 <1 Copper ppm ASTM D5185m >15 <1 Vanadium ppm ASTM D5185m >15 <1 Vanadium ppm ASTM D5185m >25 28 Vanadium ppm ASTM D5185m >20 12 Silicon ppm ASTM D5185m >20 12 Suilacon Abs/m SM D5185m	Ū				NORMAL		
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Nickel ppm ASTM D5185m >4 <1	Iron	ppm	ASTM D5185m	>100	37		
Titanium ppm ASTM D5185m <1	Chromium	ppm	ASTM D5185m	>20	2		
Silver ppm ASTM D5185m >3 <1	Nickel	ppm	ASTM D5185m	>4	<1		
Aluminum ppm ASTM D5185m >20 12 Lead ppm ASTM D5185m >40 <1 Copper ppm ASTM D5185m >330 2 Vanadium ppm ASTM D5185m <1 White Metal scalar *Visual NONE NONE Yellow Metal scalar *Visual NONE NONE Silicon ppm ASTM D5185m >20 12 Fuel WC Method >5 <10 Fuel WC Method >0.2 NEG Glycol WC Method >0.4 Soti % % *ASTM D7644 >3 0.4 Sulfation Abs/.tm *ASTM D7644 >30 24.9	Titanium	ppm	ASTM D5185m		<1		
Lead ppm ASTM D5185m >40 <1	Silver	ppm	ASTM D5185m	>3	<1		
Copper ppm ASTM D5185m >330 2 Tin ppm ASTM D5185m >15 <1 Vanadium ppm ASTM D5185m <1 White Metal scalar *Visual NONE NONE Yellow Metal scalar *Visual NONE NONE Silicon ppm ASTM D5185m<>20 12 Potassium ppm ASTM D5185m<>20 12 Water WC Method >0.2 NEG Glycol WC Method >0.2 NEG Sott % % *ASTM D7844<>3 0.4 Sulfation Abs/:mm *ASTM D7415<>30 24.9 Sulfation Abs/:mm *ASTM D7844<>20 9.9 S	Aluminum	ppm	ASTM D5185m	>20	12		
Tin ppm ASTM D5185m <1	Lead	ppm	ASTM D5185m	>40	<1		
Tin ppm ASTM D5185m <1	Copper	ppm	ASTM D5185m	>330	2		
White Metal scalar *Visual NONE NONE Yellow Metal scalar *Visual NONE NONE Silicon ppm ASTM D5185m >20 12 Potassium ppm ASTM D5185m >20 12 Fuel WC Method >5 <1.0 Glycol WC Method >0.2 NEG Soot % % 'ASTM D7844 >3 0.4 Soot % % 'ASTM D7844 >3 0.4 Soot % % 'ASTM D7844 >3 0.4 Soot % % 'ASTM D7845 >30 24.9 Sulfation Abs/cm 'NSUB NONE Sand/Dirt scalar<'Visual		ppm	ASTM D5185m	>15	<1		
White Metal scalar *Visual NONE NONE Yellow Metal scalar *Visual NONE NONE Silicon ppm ASTM D5185m >20 12 Potassium ppm ASTM D5185m >20 12 Fuel WC Method >5 <1.0 Glycol WC Method >0.2 NEG Soot % % *ASTM D7624 >20 9.9 Sulfation Abs/cm *ASTM D7644 >3 0.4 Sulfation Abs/tm *ASTM D7645 >30 24.9 Sulfation Abs/tm *ASTM D7618 30 24.9 Debris scalar *Visual NONE Appearance <	Vanadium	ppm	ASTM D5185m		<1		
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Potassium ppm ASTM D5185m >20 12 Fuel WC Method >5 <1.0 Water WC Method >0.2 NEG Glycol WC Method >0.2 NEG Soot % % *ASTM D7624 >20 9.9 Nitration Abs/.nm *ASTM D7624 >20 9.9 Sulfation scalar *Visual NONE NONE Odor scalar *Visual NORML NORML	Yellow Metal	scalar	*Visual	NONE	NONE		
Potassium ppm ASTM D5185m >20 12 Fuel WC Method >5 <1.0 Water WC Method >0.2 NEG Glycol WC Method >0.2 NEG Soot % % *ASTM D7624 >20 9.9 Nitration Abs/.nm *ASTM D7624 >20 9.9 Sulfation scalar *Visual NONE NONE Odor scalar *Visual NORML NORML							
Fuel WC Method >5 <1.0	Silicon	ppm	ASTM D5185m	>25	28		
Water WC Method >0.2 NEG Glycol WC Method NEG Soot % % *ASTM D7844 >3 0.4 Nitration Abs/cm *ASTM D7624 >20 9.9 Sulfation Abs/.mm *ASTM D7152 30 24.9 Sulfation Abs/.mm *ASTM D7152 30 24.9 Debris scalar *Visual NONE NORE Appearance scalar *Visual NORML NORML Odor scalar *Visual	Potassium	ppm	ASTM D5185m	>20	12		
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Siltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLCodorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGSodiumppmASTM D5185m>1582BoronppmASTM D5185m250259BariumppmASTM D5185m1000MagneseppmASTM D5185m10015MagnesiumppmASTM D5185m30002552PhosphorusppmASTM D5185m13501418ZincppmASTM D5185m13501418SulfurppmASTM D5185m42504062OxidationAbs/.1mm*ASTM D5186425020.7Base Number (BN)mg KOHgASTM D2868.59.1	Nitration	Abs/cm	*ASTM D7624	>20	9.9		
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Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual >0.2 NEG Sodium ppm ASTM D5185m >158 2 Boron ppm ASTM D5185m 250 259 Barium ppm ASTM D5185m 10 0 Molybdenum ppm ASTM D5185m 100 15 Magnesium ppm ASTM D5185m 450 126 Calcium ppm ASTM D5185m 3000 2552 Phosphorus ppm ASTM D5185m 1150 1068 Zinc ppm ASTM D5185m 1350 1418 Sulfur ppm ASTM D5185m 4250 4062 Oxidation Abs/	Sand/Dirt	scalar	*Visual	NONE	NONE		
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Boron ppm ASTM D5185m 250 259 Barium ppm ASTM D5185m 10 0 Molybdenum ppm ASTM D5185m 100 15 Manganese ppm ASTM D5185m 450 126 Magnesium ppm ASTM D5185m 450 126 Calcium ppm ASTM D5185m 3000 2552 Phosphorus ppm ASTM D5185m 1150 1068 Zinc ppm ASTM D5185m 1350 1418 Sulfur ppm ASTM D5185m 4250 4062 Oxidation Abs/.1mm<*ASTM D7414 >25 20.7 Base Number (BN) mg KOH/g ASTM D2896 8.5 9.1	Emulsified Water	scalar	*Visual	>0.2	NEG		
Boron ppm ASTM D5185m 250 259 Barium ppm ASTM D5185m 10 0 Molybdenum ppm ASTM D5185m 100 15 Manganese ppm ASTM D5185m 450 126 Magnesium ppm ASTM D5185m 450 126 Calcium ppm ASTM D5185m 3000 2552 Phosphorus ppm ASTM D5185m 1150 1068 Zinc ppm ASTM D5185m 1350 1418 Sulfur ppm ASTM D5185m 4250 4062 Oxidation Abs/.1mm<*ASTM D7414 >25 20.7 Base Number (BN) mg KOH/g ASTM D2896 8.5 9.1							
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Calcium ppm ASTM D5185m 3000 2552 Phosphorus ppm ASTM D5185m 1150 1068 Zinc ppm ASTM D5185m 1350 1418 Sulfur ppm ASTM D5185m 4250 4062 Oxidation Abs/.1mm *ASTM D7414 >25 20.7 Base Number (BN) mg KOH/g ASTM D2896 8.5 9.1		ppm					
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Sulfur ppm ASTM D5185m 4250 4062 Oxidation Abs/.1mm *ASTM D7414 >25 20.7 Base Number (BN) mg KOH/g ASTM D2896 8.5 9.1		ppm					
Oxidation Abs/.1mm *ASTM D7414 >25 20.7 Base Number (BN) mg KOH/g ASTM D2896 8.5 9.1	-	ppm	ASTM D5185m				
Base Number (BN) mg KOH/g ASTM D2896 8.5 9.1		ppm	ASTM D5185m				
			*ASTM D7414		20.7		
Visc @ 100°C cSt ASTM D445 14.4 (14.9 /	()	mg KOH/g	ASTM D2896		9.1		
	Visc @ 100°C	cSt	ASTM D445	14.4	14.9		

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the

oil. The condition of the oil is suitable for further service.



HARTILL'S MOUNTAIN SAW & TRACTOR Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : KT0001260 Received 101 W ROBERT AVE : 22 May 2024 : 24 May 2024 Lab Number : 06188565 Tested CHEWELAH, WA Unique Number : 11045317 Diagnosed : 24 May 2024 - Wes Davis US 99109 Test Package : CONST (Additional Tests: TBN) Contact: PAUL Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. paul@hartills.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (509)935-8829 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F:

Contact/Location: PAUL - HARCHEWA Page 2 of 2