WEAR CONTAMINATION FLUID CONDITION

NORMAL

MARGINAL

NORMAL

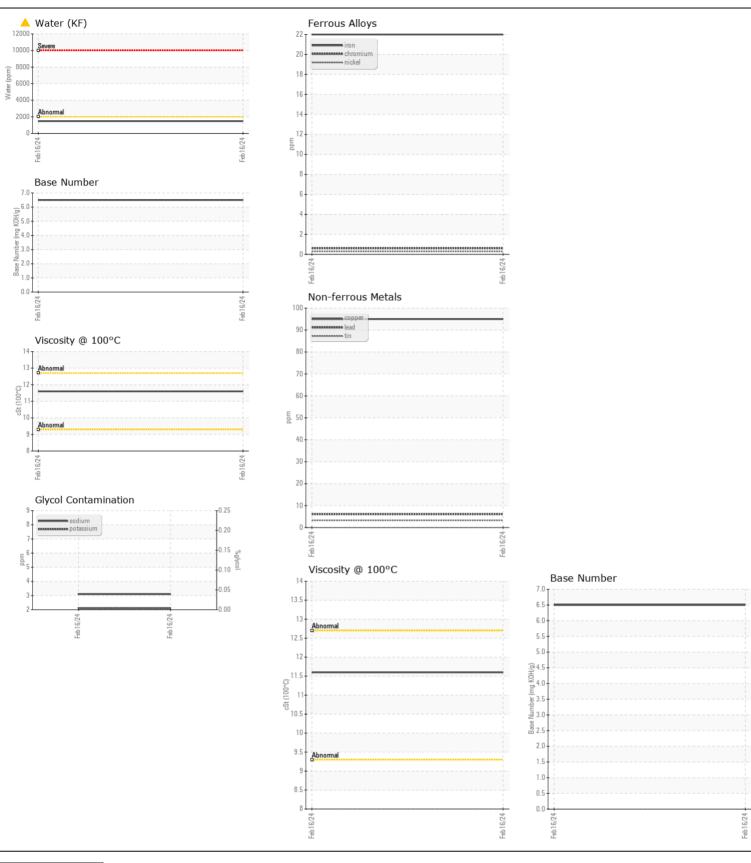
Machine Id

KIOTI CK2618HST 99235 (S/N YL9502023)

Component Diesel Engine

10W30 BRENNTAG (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		KT0000711		
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Date		Client Info		16 Feb 2024		
	Machine Age	hrs	Client Info		107		
	Oil Age	hrs	Client Info		51		
	Filter Age	hrs	Client Info		51		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				MARGINAL		
VE A D				400			
WEAR	Iron	ppm	ASTM D5185m		22		
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1		
	Nickel	ppm	ASTM D5185m	>4	<1		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m		5		
	Lead	ppm	ASTM D5185m		6		
	Copper	ppm	ASTM D5185m		95		
	Tin	ppm	ASTM D5185m	>15	3		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	8		
There is a light concentration of water present in the oil.	Potassium	ppm	ASTM D5185m	>20	2		
	Fuel		WC Method	>5	<1.0		
	Water	%	ASTM D6304	>0.2	△ 0.147		
	ppm Water	ppm	ASTM D6304	>2000	1470		
	Glycol	%	*ASTM D2982		NEG		
	Soot %	%	*ASTM D7844	>3	0.1		
	Nitration	Abs/cm	*ASTM D7624	>20	4.4		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	12.6		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.2	0.2%		
THE CONDITION	0		AOTM DEADE				
FLUID CONDITION	Sodium	ppm	ASTM D5185m		3		
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185m		2		
	Barium	ppm	ASTM D5185m		3		
	Monganasa	ppm	ASTM D5185m		1		
	Magagium	ppm	ASTM D5185m		2		
	Magnesium	ppm	ASTM D5185m		736		
	Calcium	ppm	ASTM D5185m		821 952		
	Phosphorus	ppm	ASTM D5185m		853		
	Zinc	ppm	ASTM D5185m		1019		
	Sulfur	ppm Abs/1mm	ASTM D5185m	. 05	2422		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	6.5		
	Base Number (BN)		ASTM D2896		6.5		
	Visc @ 100°C	cSt	ASTM D445		11.6)	







Laboratory Sample No.

Lab Number : 06103563

: KT0000711 Unique Number : 10901793

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received

Tested Diagnosed

: 28 Feb 2024 : 04 Mar 2024

: 04 Mar 2024 - Jonathan Hester

Test Package : CONST (Additional Tests: Glycol, KF, TBN) To discuss this sample report, contact Customer Service at 1-800-237-1369.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

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