



WEAR	ATTENTION
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
KLEEMANN KT80 0783

Component
Diesel Engine

Fluid
{not provided} (--- QTS)

RECOMMENDATION

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. We recommend an early resample to monitor this condition.

WEAR

All component wear rates are normal.

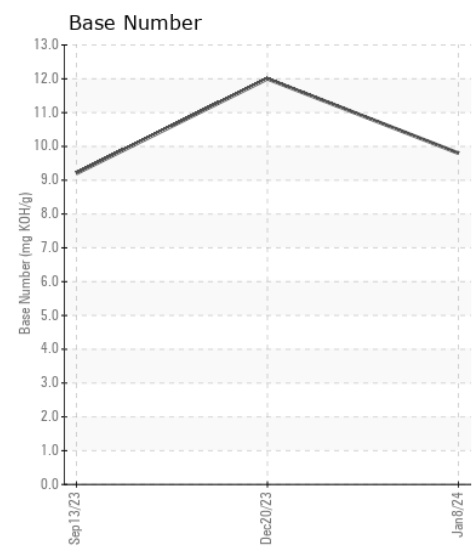
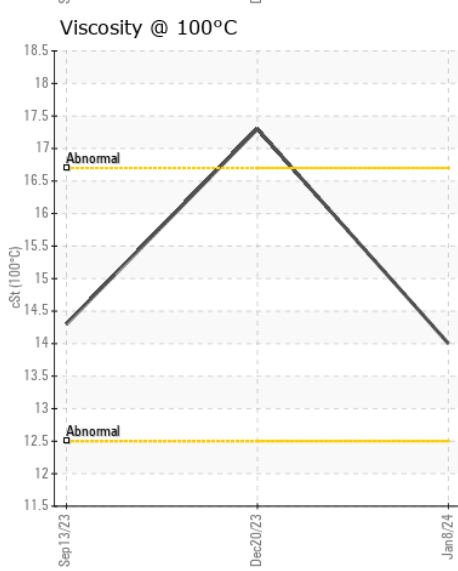
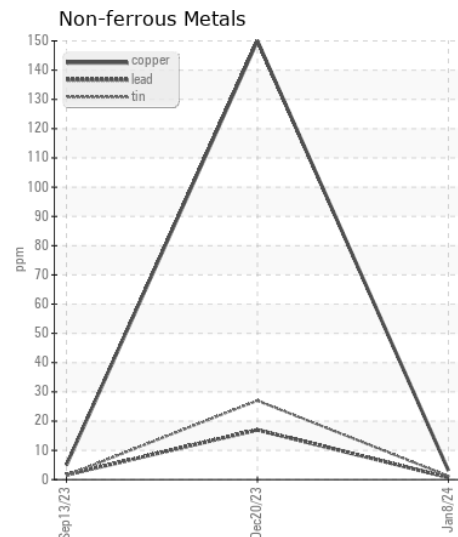
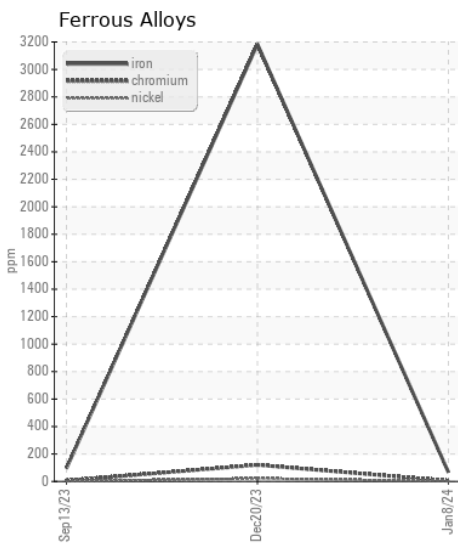
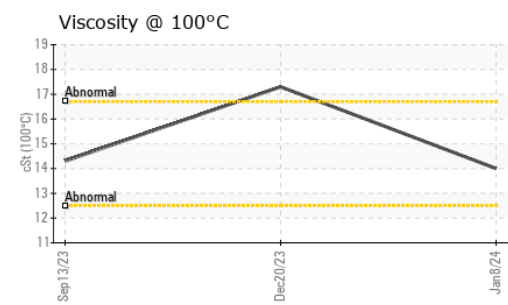
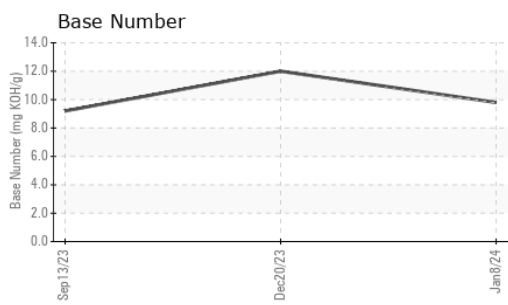
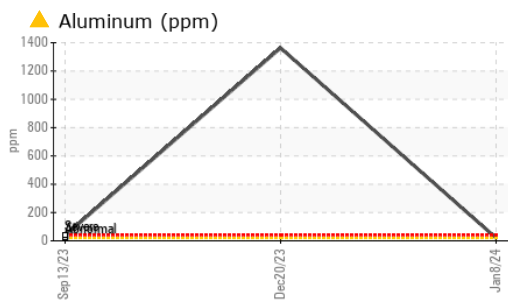
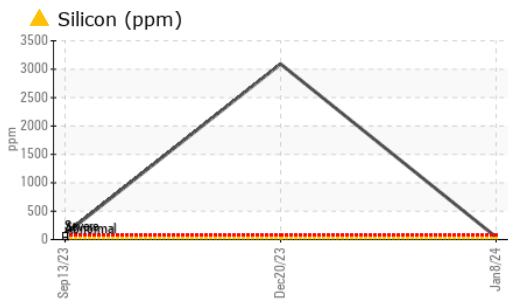
CONTAMINATION

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

FLUID CONDITION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0194105	JR0194280	JR0182871
Sample Date		Client Info		08 Jan 2024	20 Dec 2023	13 Sep 2023
Machine Age	hrs	Client Info		0	3258	2722
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	SEVERE	SEVERE
Iron	ppm	ASTM D5185m	>100	67	3184	96
Chromium	ppm	ASTM D5185m	>20	5	120	6
Nickel	ppm	ASTM D5185m	>4	1	22	1
Titanium	ppm	ASTM D5185m		<1	40	1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	20	1363	37
Lead	ppm	ASTM D5185m	>40	<1	17	2
Copper	ppm	ASTM D5185m	>330	3	150	5
Tin	ppm	ASTM D5185m	>15	1	27	1
Vanadium	ppm	ASTM D5185m		0	2	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	43	3092	92
Potassium	ppm	ASTM D5185m	>20	6	335	8
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.3	2.2	0.6
Nitration	Abs/cm	*ASTM D7624	>20	8.3	16.2	11.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.7	42.7	23.1
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m		<1	307	9
Boron	ppm	ASTM D5185m		267	203	217
Barium	ppm	ASTM D5185m		0	12	0
Molybdenum	ppm	ASTM D5185m		234	301	252
Manganese	ppm	ASTM D5185m		1	34	1
Magnesium	ppm	ASTM D5185m		794	1107	861
Calcium	ppm	ASTM D5185m		1387	1928	1663
Phosphorus	ppm	ASTM D5185m		785	1069	898
Zinc	ppm	ASTM D5185m		1045	1304	1143
Sulfur	ppm	ASTM D5185m		3214	3132	3557
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.2	32.4	20.7
Base Number (BN)	mg KOH/g	ASTM D2896		9.8	12.0	9.2
Visc @ 100°C	cSt	ASTM D445		14.0	17.3	14.3



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0194105 **Received** : 09 Jan 2024
Lab Number : 06055257 **Diagnosed** : 10 Jan 2024
Unique Number : 10821206 **Diagnostician** : Jonathan Hester
Test Package : CONST (Additional Tests: TBN)

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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.

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