James River Equipment

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
KLEEMANN KT80 80805
Component
Diesel Engine
Fluid
{not provided} (--- QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

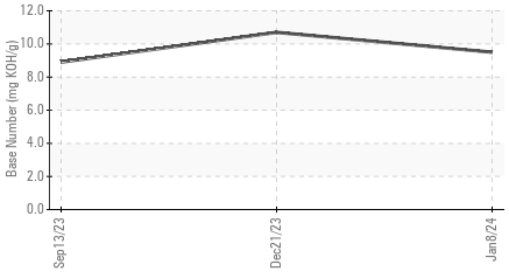
There is no indication of any contamination in the oil.

FLUID CONDITION

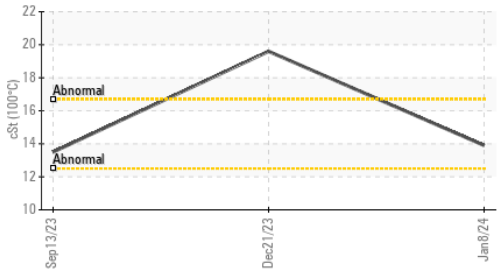
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0194461	JR0194331	JR0182877
Sample Date		Client Info		08 Jan 2024	21 Dec 2023	13 Sep 2023
Machine Age	hrs	Client Info		0	2665	2164
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				NORMAL	SEVERE	ABNORMAL
Iron	ppm	ASTM D5185m	>100	21	⬢ 335	63
Chromium	ppm	ASTM D5185m	>20	1	▲ 18	3
Nickel	ppm	ASTM D5185m	>4	1	4	<1
Titanium	ppm	ASTM D5185m		<1	3	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	9	▲ 129	▲ 26
Lead	ppm	ASTM D5185m	>40	<1	3	<1
Copper	ppm	ASTM D5185m	>330	1	29	2
Tin	ppm	ASTM D5185m	>15	1	4	<1
Vanadium	ppm	ASTM D5185m		0	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	17	⬢ 279	▲ 61
Potassium	ppm	ASTM D5185m	>20	3	25	6
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	0.2	1.6	0.5
Nitration	Abs/cm	*ASTM D7624	>20	7.2	19.3	9.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.3	34.0	21.0
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		0	31	6
Boron	ppm	ASTM D5185m		271	120	243
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		241	235	242
Manganese	ppm	ASTM D5185m		<1	4	1
Magnesium	ppm	ASTM D5185m		799	1108	829
Calcium	ppm	ASTM D5185m		1356	1638	1557
Phosphorus	ppm	ASTM D5185m		782	1141	879
Zinc	ppm	ASTM D5185m		1067	1442	1098
Sulfur	ppm	ASTM D5185m		3057	3200	3481
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.6	38.3	16.9
Base Number (BN)	mg KOH/g	ASTM D2896		9.5	10.7	8.9
Visc @ 100°C	cSt	ASTM D445		13.9	▲ 19.6	13.5

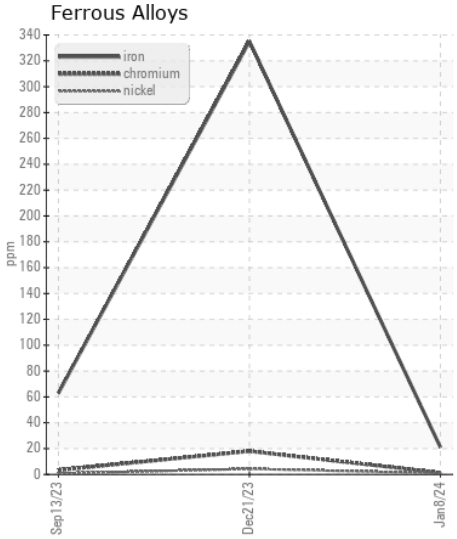
Base Number



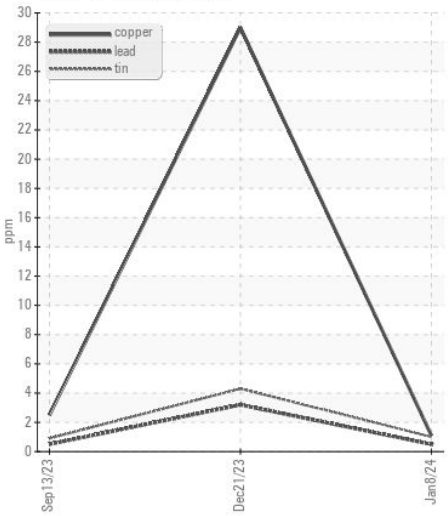
Viscosity @ 100°C



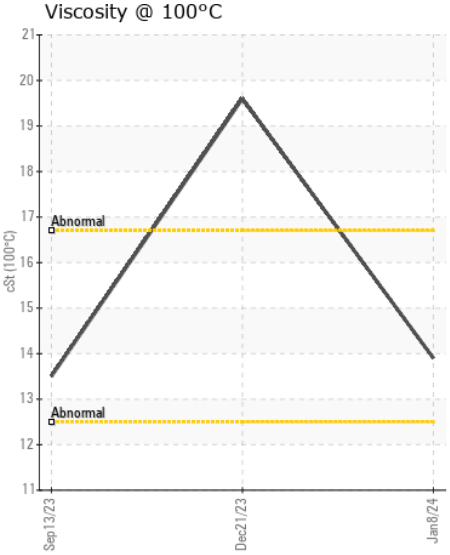
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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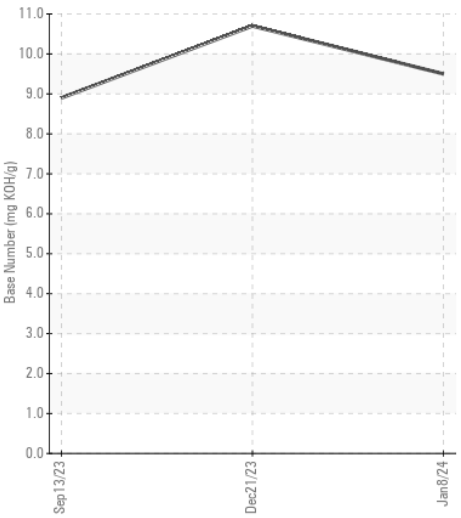

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0194461 **Recieved** : 09 Jan 2024
Lab Number : 06055184 **Diagnosed** : 10 Jan 2024
Unique Number : 10821133 **Diagnostician** : Don Baldridge
Test Package : CONST (Additional Tests: TBN)

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)

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