MOB II WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL

Machine Id
Cummins Cummins generator (S/N 01)
Component
2 Diesel Engine
Fluid
{not provided} (91 LTR)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor. (Customer Sample Comment: First oil sample taken after Kleen oil system installation. Oil was changed and system installed @14517 hrs)

WEAR

All component wear rates are normal.

CONTAMINATION

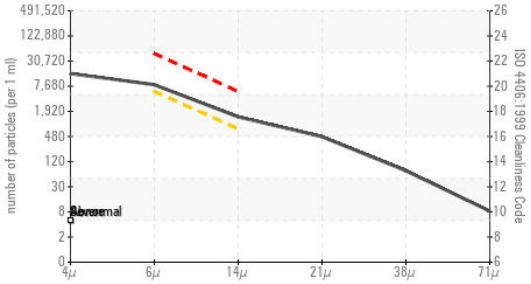
There is a moderate amount of particulates present in the oil. No other contaminants were detected in the oil.

FLUID CONDITION

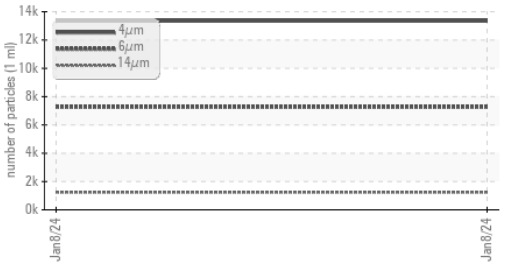
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		KL0013072	---	---
Sample Date		Client Info		08 Jan 2024	---	---
Machine Age	hrs	Client Info		14517	---	---
Oil Age	hrs	Client Info		0	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		N/A	---	---
Filter Changed		Client Info		N/A	---	---
Sample Status				ATTENTION	---	---
Iron	ppm	ASTM D5185m	>90	2	---	---
Chromium	ppm	ASTM D5185m	>20	<1	---	---
Nickel	ppm	ASTM D5185m	>2	0	---	---
Titanium	ppm	ASTM D5185m	>2	<1	---	---
Silver	ppm	ASTM D5185m	>2	0	---	---
Aluminum	ppm	ASTM D5185m	>20	2	---	---
Lead	ppm	ASTM D5185m	>40	<1	---	---
Copper	ppm	ASTM D5185m	>330	<1	---	---
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	>25	6	---	---
Potassium	ppm	ASTM D5185m	>20	0	---	---
Fuel		WC Method	>3.0	<1.0	---	---
Water		WC Method	>0.2	NEG	---	---
Glycol		WC Method		NEG	---	---
Soot %	%	*ASTM D7844	>6	0.1	---	---
Nitration	Abs/cm	*ASTM D7624	>20	8.2	---	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.4	---	---
Particles >4µm		ASTM D7647		13345	---	---
Particles >6µm		ASTM D7647	>5000	▲ 7270	---	---
Particles >14µm		ASTM D7647	>640	▲ 1237	---	---
Particles >21µm		ASTM D7647	>160	▲ 417	---	---
Particles >38µm		ASTM D7647	>40	▲ 64	---	---
Particles >71µm		ASTM D7647	>10	7	---	---
Oil Cleanliness		ISO 4406 (c)	>19/16	▲ 20/17	---	---
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	NEG	---	---
Sodium	ppm	ASTM D5185m		2	---	---
Boron	ppm	ASTM D5185m		79	---	---
Barium	ppm	ASTM D5185m		0	---	---
Molybdenum	ppm	ASTM D5185m		85	---	---
Manganese	ppm	ASTM D5185m		<1	---	---
Magnesium	ppm	ASTM D5185m		116	---	---
Calcium	ppm	ASTM D5185m		2121	---	---
Phosphorus	ppm	ASTM D5185m		1056	---	---
Zinc	ppm	ASTM D5185m		1221	---	---
Sulfur	ppm	ASTM D5185m		4276	---	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.6	---	---
Base Number (BN)	mg KOH/g	ASTM D2896		7.2	---	---
Visc @ 100°C	cSt	ASTM D445		13.5	---	---

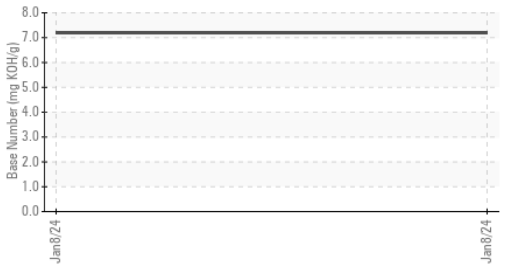
Particle Count



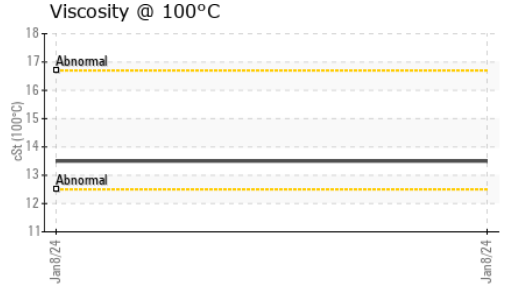
Particle Trend



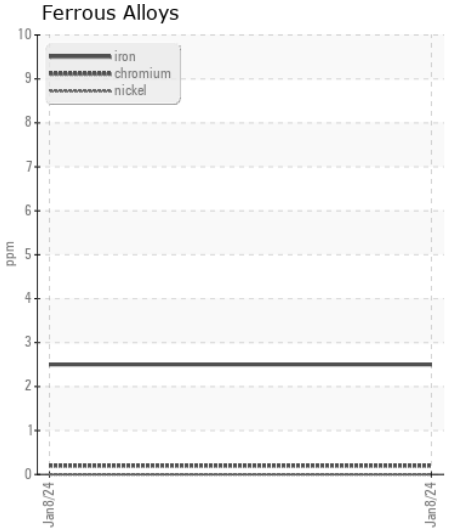
Base Number



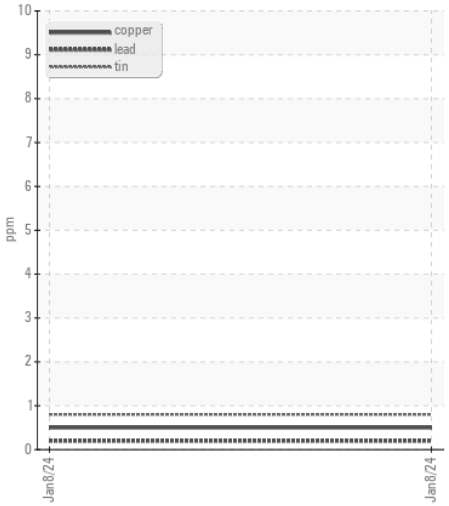
Viscosity @ 100°C



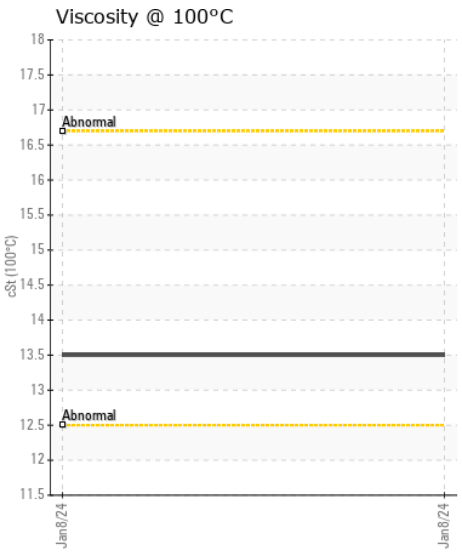
Ferrous Alloys



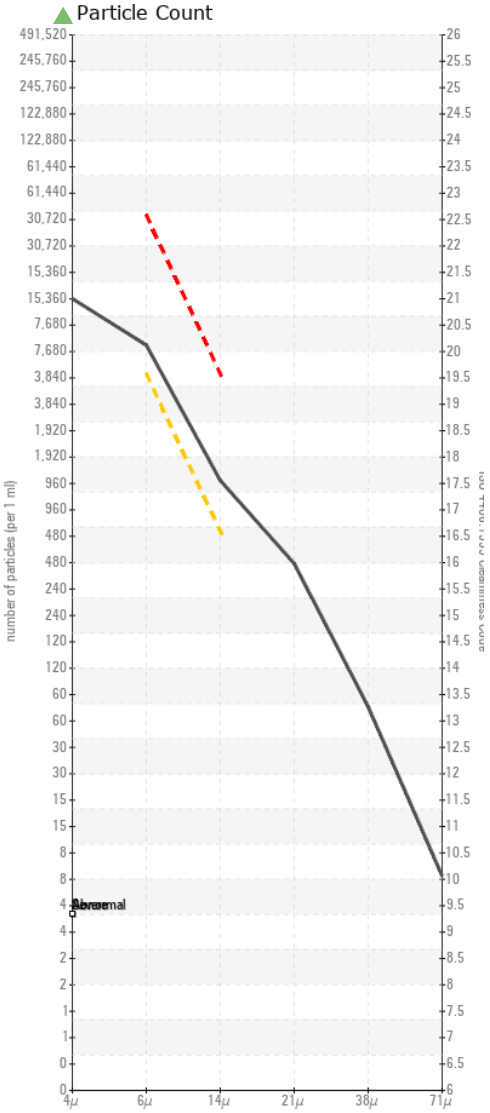
Non-ferrous Metals



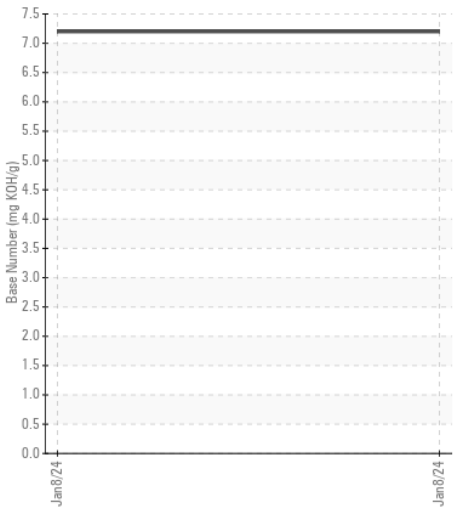
Viscosity @ 100°C



Particle Count



Base Number



Certificate L2367

Laboratory	: WearCheck USA - 501 Madison Ave., Cary, NC 27513		
Sample No.	: KL0013072	**Recieved**	: 12 Jan 2024
Lab Number	: 06060089	**Diagnosed**	: 01 Feb 2024
Unique Number	: 10831471	**Diagnostician**	: Doug Bogart
Test Package	: MOB 2 (Additional Tests: PrtCount)		

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)

INNOVATIVE SOLUTIONS
14026 COUNTY RD 3
WIGGINS, CO
US 80654
Contact: STEVEN DEIKER
sdeiker@innovate-solve.com
T:
F: