MOB II WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
KENWORTH 238
Component
Diesel Engine
Fluid
SWEPCO 306 ENGINE OIL SAE 15W40 (11 GAL)

RECOMMENDATION

The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

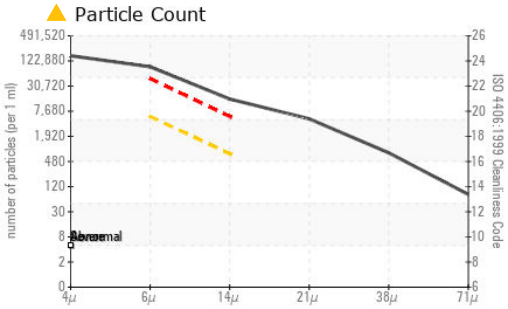
CONTAMINATION

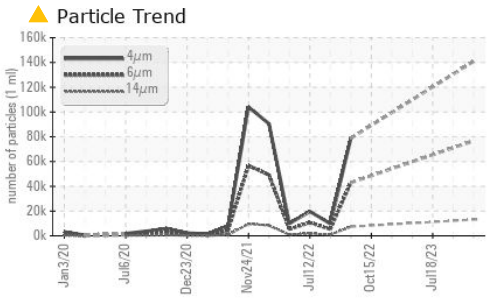
There is a high amount of particulates present in the oil.

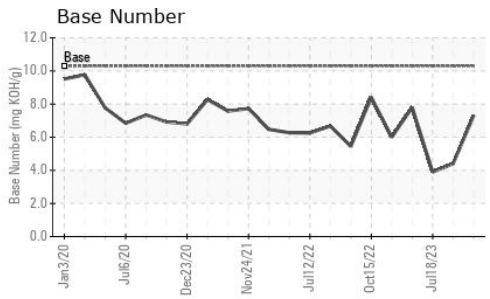
FLUID CONDITION

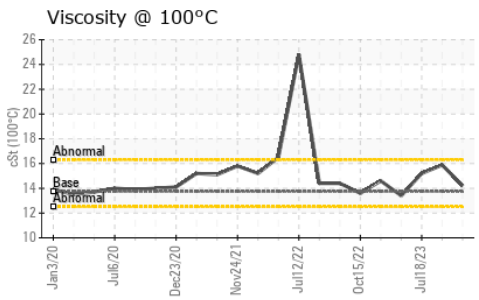
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

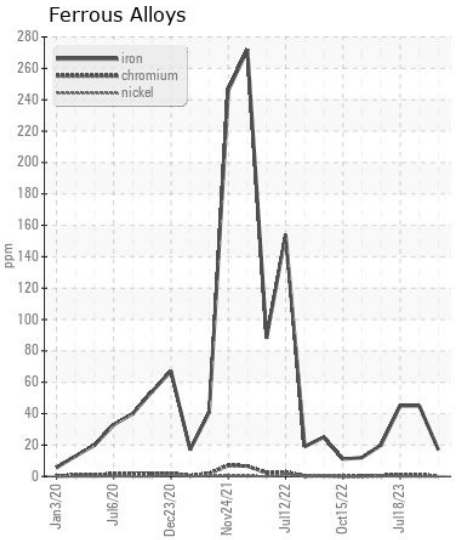
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		KL0009779	KL0008476	KL0008475
Sample Date		Client Info		01 Oct 2023	22 Aug 2023	18 Jul 2023
Machine Age	mls	Client Info		442745	433846	427650
Oil Age	mls	Client Info		9099	52603	46607
Filter Age	mls	Client Info		9099	6199	2725
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	NORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>165	17	45	45
Chromium	ppm	ASTM D5185m	>5	<1	<1	1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m	>2	0	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	3	<1	4
Lead	ppm	ASTM D5185m	>150	4	21	22
Copper	ppm	ASTM D5185m	>90	4	4	3
Tin	ppm	ASTM D5185m	>5	<1	<1	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	>35	10	10	11
Potassium	ppm	ASTM D5185m	>20	2	4	6
Fuel		WC Method	>3.0	<1.0	0.2	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>7.5	0.2	0.5	0.5
Nitration	Abs/cm	*ASTM D7624	>20	10.0	12.9	12.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.7	32.5	32.4
Particles >4µm		ASTM D7647		140900	---	---
Particles >6µm		ASTM D7647	>5000	▲ 76756	---	---
Particles >14µm		ASTM D7647	>640	▲ 13063	---	---
Particles >21µm		ASTM D7647	>160	▲ 4400	---	---
Particles >38µm		ASTM D7647	>40	▲ 679	---	---
Particles >71µm		ASTM D7647	>10	▲ 69	---	---
Oil Cleanliness		ISO 4406 (c)	>19/16	▲ 23/21	---	---
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		5	16	15
Boron	ppm	ASTM D5185m		163	72	94
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		331	273	270
Manganese	ppm	ASTM D5185m		<1	<1	1
Magnesium	ppm	ASTM D5185m		517	443	436
Calcium	ppm	ASTM D5185m		1561	1843	1882
Phosphorus	ppm	ASTM D5185m		1069	1010	1005
Zinc	ppm	ASTM D5185m		1145	1190	1214
Sulfur	ppm	ASTM D5185m		3858	3589	4266
Oxidation	Abs/.1mm	*ASTM D7414	>25	22.5	32.6	31.4
Base Number (BN)	mg KOH/g	ASTM D2896	10.3	7.30	4.4	▲ 3.9
Visc @ 100°C	cSt	ASTM D445	13.74	14.2	15.88	15.2

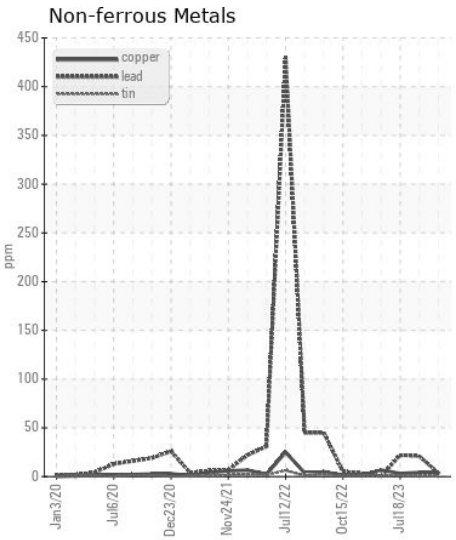


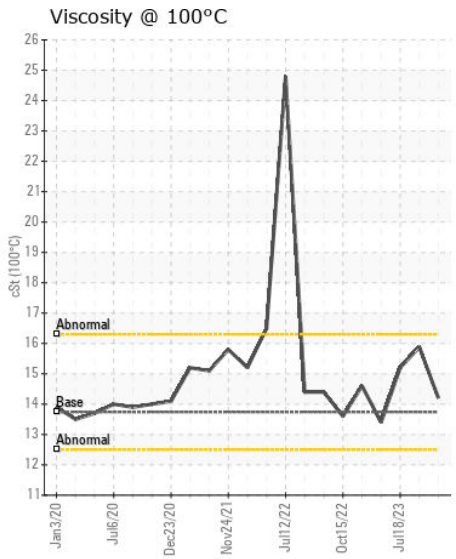


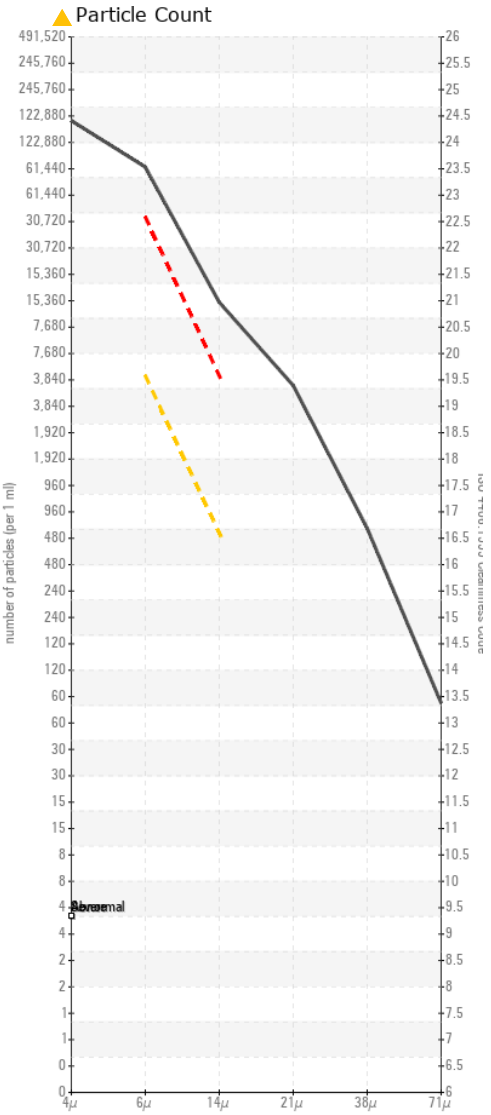


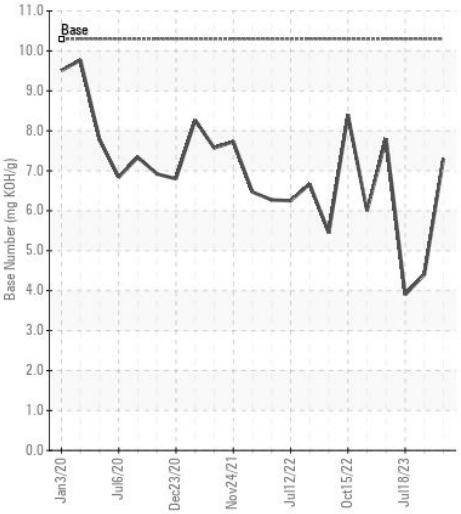












Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0009779
Lab Number : 05969788
Unique Number : 10681738
Test Package : MOB 2 (Additional Tests: PrtCount)
Received : 04 Oct 2023
Tested : 09 Oct 2023
Diagnosed : 09 Oct 2023 - Angela Borella

Certificate L2367

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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)