MOB II WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	SEVERE

Machine Id
KENWORTH 711
Component
Diesel Engine
Fluid
SCHAEFFER SUPREME 7000 (--- GAL)

RECOMMENDATION

We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

WEAR

All component wear rates are normal.

CONTAMINATION

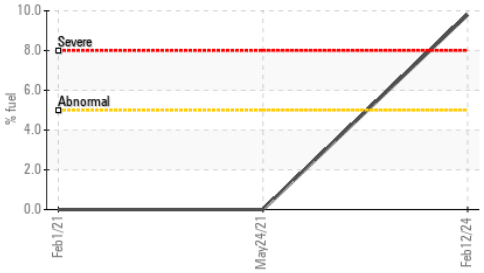
There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

FLUID CONDITION

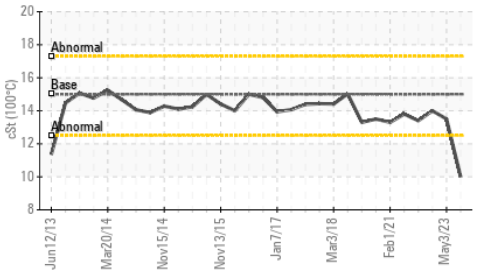
The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**WC0778989**	WC0707379	WC0707408
Sample Date		Client Info		**12 Feb 2024**	03 May 2023	02 Sep 2022
Machine Age	mls	Client Info		**310038**	302487	450
Oil Age	mls	Client Info		**7551**	11196	450
Filter Age	mls	Client Info		**7551**	11196	450
Oil Changed		Client Info		**Changed**	Changed	Changed
Filter Changed		Client Info		**Changed**	Changed	Changed
Sample Status				**SEVERE**	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>100	**52**	5	9
Chromium	ppm	ASTM D5185m	>20	**4**	<1	<1
Nickel	ppm	ASTM D5185m	>4	**0**	<1	0
Titanium	ppm	ASTM D5185m		**0**	0	0
Silver	ppm	ASTM D5185m	>3	**0**	<1	0
Aluminum	ppm	ASTM D5185m	>20	**3**	<1	2
Lead	ppm	ASTM D5185m	>40	**0**	<1	<1
Copper	ppm	ASTM D5185m	>330	**2**	<1	<1
Tin	ppm	ASTM D5185m	>15	**0**	<1	<1
Vanadium	ppm	ASTM D5185m		**0**	0	0
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	**12**	2	5
Potassium	ppm	ASTM D5185m	>20	**4**	14	1
Fuel	%	ASTM D3524	>5	▲ **9.8**	<1.0	<1.0
Water		WC Method	>0.2	**NEG**	NEG	NEG
Glycol		WC Method		**NEG**	NEG	NEG
Soot %	%	*ASTM D7844	>3	**0.8**	0.4	0.7
Nitration	Abs/cm	*ASTM D7624	>20	**12.8**	10.0	11.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	**24.5**	20.0	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		**6**	<1	2
Boron	ppm	ASTM D5185m		**40**	109	50
Barium	ppm	ASTM D5185m		**0**	0	0
Molybdenum	ppm	ASTM D5185m	50	**<1**	6	<1
Manganese	ppm	ASTM D5185m		**0**	<1	<1
Magnesium	ppm	ASTM D5185m	1000	**708**	686	697
Calcium	ppm	ASTM D5185m	1400	**1322**	1327	1360
Phosphorus	ppm	ASTM D5185m	985	**704**	710	719
Zinc	ppm	ASTM D5185m	1060	**787**	826	778
Sulfur	ppm	ASTM D5185m	4000	**3289**	3127	3427
Oxidation	Abs/.1mm	*ASTM D7414	>25	**22.0**	15.2	17.5
Base Number (BN)	mg KOH/g	ASTM D2896	10	**5.38**	9.13	6.48
Visc @ 100°C	cSt	ASTM D445	15	▲ **10.0**	13.5	14.0

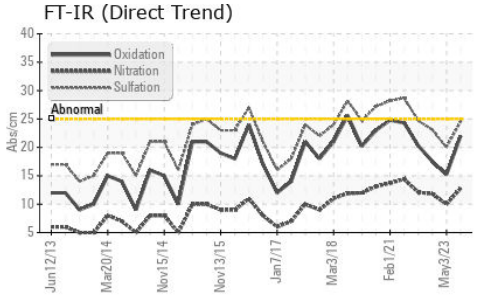
Fuel Dilution



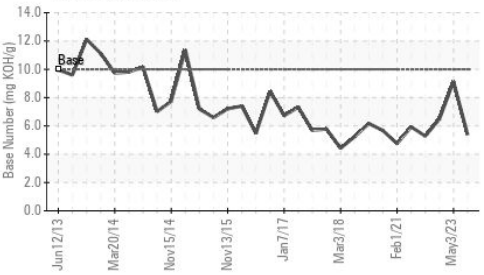
Viscosity @ 100°C



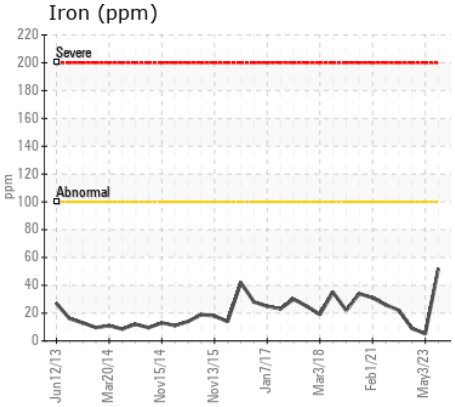
FT-IR (Direct Trend)



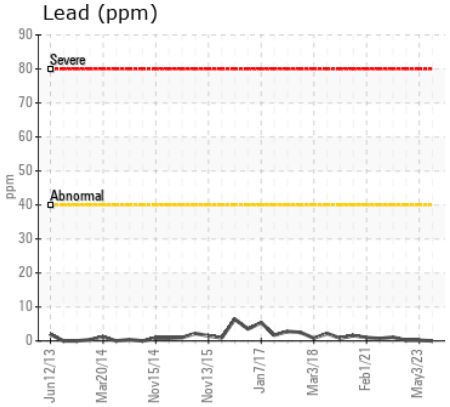
Base Number



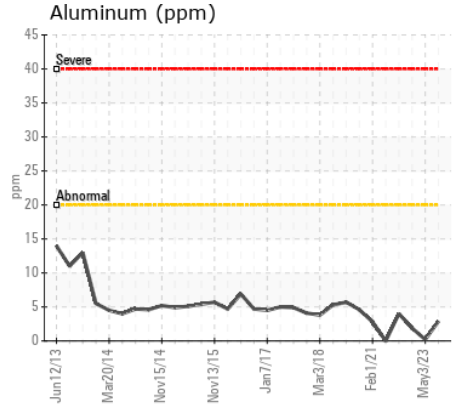
Iron (ppm)



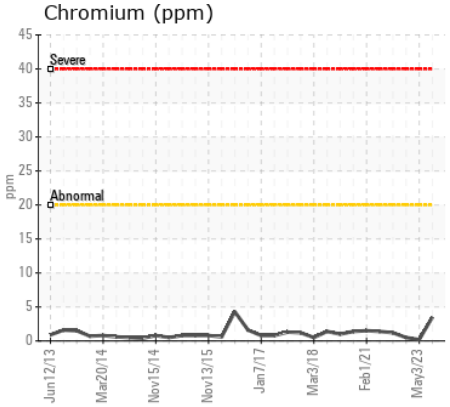
Lead (ppm)



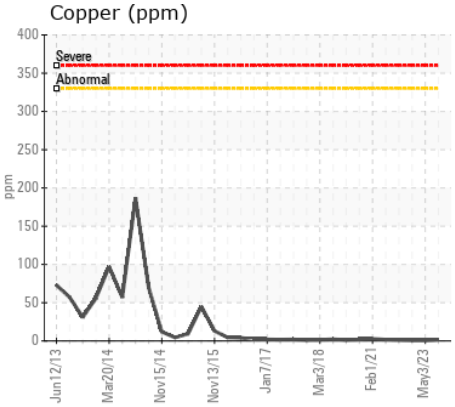
Aluminum (ppm)



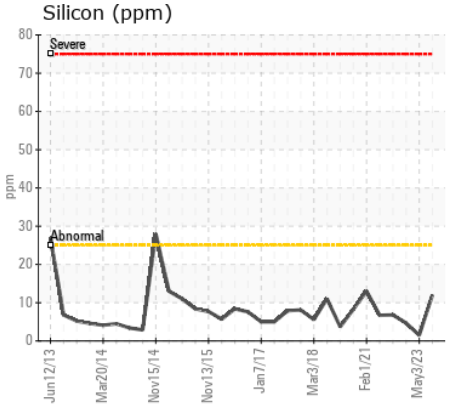
Chromium (ppm)



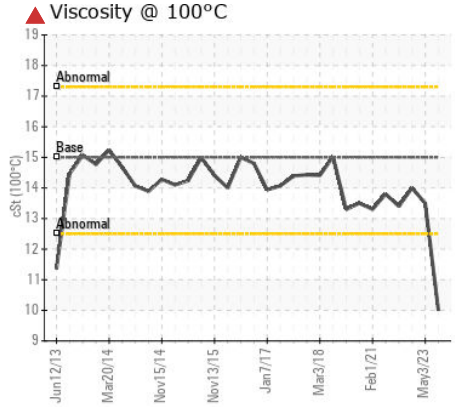
Copper (ppm)



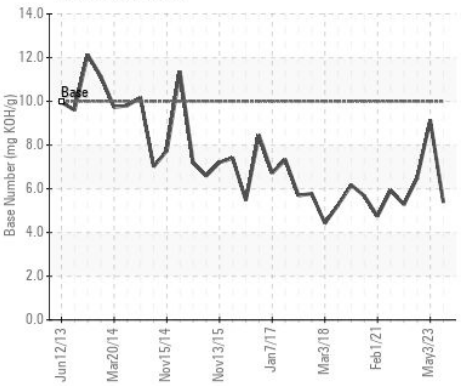
Silicon (ppm)



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0778989 **Received** : 11 Apr 2024
Lab Number : 06146751 **Tested** : 17 Apr 2024
Unique Number : 10976829 **Diagnosed** : 17 Apr 2024 - Wes Davis
Test Package : MOB 2 (Additional Tests: FuelDilution, PercentFuel)

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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