MOB II WEAR CHECK

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
PETERBILT 68
Component
Diesel Engine
Fluid
{not provided} (12 GAL)

RECOMMENDATION

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

WEAR

Cylinder, crank, or cam shaft wear is indicated.

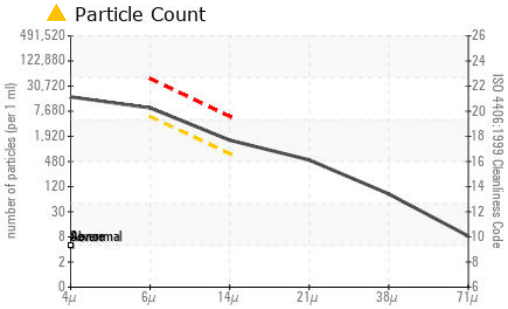
CONTAMINATION

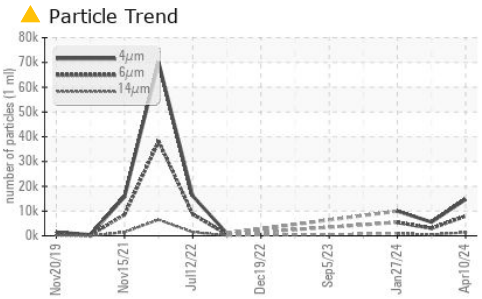
There is a high amount of particulates present in the oil.

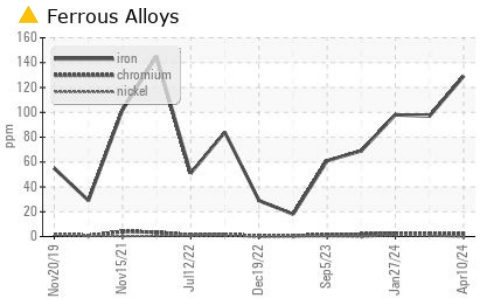
FLUID CONDITION

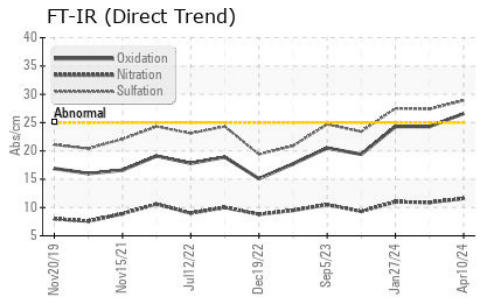
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

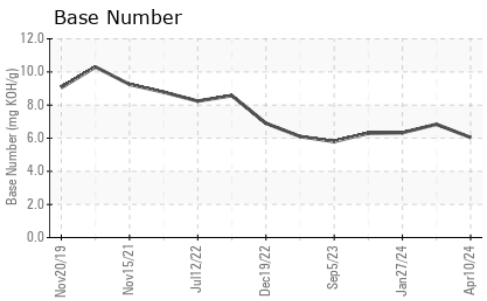
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		KL0013716	KL0013714	KL0013009
Sample Date		Client Info		10 Apr 2024	06 Mar 2024	27 Jan 2024
Machine Age	mls	Client Info		1003863	993976	983093
Oil Age	mls	Client Info		40000	30000	0
Filter Age	mls	Client Info		15000	10000	0
Oil Changed		Client Info		Not Changd	Not Changd	N/A
Filter Changed		Client Info		Changed	N/A	N/A
Sample Status				ABNORMAL	NORMAL	ATTENTION
Iron	ppm	ASTM D5185m	>100	▲ 129	97	98
Chromium	ppm	ASTM D5185m	>20	3	2	3
Nickel	ppm	ASTM D5185m	>2	0	<1	1
Titanium	ppm	ASTM D5185m	>2	0	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	4	5	4
Lead	ppm	ASTM D5185m	>40	14	8	9
Copper	ppm	ASTM D5185m	>330	21	17	21
Tin	ppm	ASTM D5185m	>15	2	1	1
Vanadium	ppm	ASTM D5185m		<1	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	12	10	13
Potassium	ppm	ASTM D5185m	>20	1	4	3
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	1.1	1	1
Nitration	Abs/cm	*ASTM D7624	>20	11.6	10.9	11.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	28.9	27.4	27.5
Particles >4µm		ASTM D7647		14694	5533	9970
Particles >6µm		ASTM D7647	>5000	▲ 8005	3014	● 5431
Particles >14µm		ASTM D7647	>640	▲ 1362	513	● 924
Particles >21µm		ASTM D7647	>160	▲ 459	173	● 311
Particles >38µm		ASTM D7647	>40	▲ 71	27	48
Particles >71µm		ASTM D7647	>10	7	3	5
Oil Cleanliness		ISO 4406 (c)	>19/16	▲ 20/18	19/16	● 20/17
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		3	4	2
Boron	ppm	ASTM D5185m		130	152	119
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		279	268	245
Manganese	ppm	ASTM D5185m		1	1	2
Magnesium	ppm	ASTM D5185m		461	434	387
Calcium	ppm	ASTM D5185m		1884	1614	1716
Phosphorus	ppm	ASTM D5185m		1058	1022	1022
Zinc	ppm	ASTM D5185m		1180	1121	1111
Sulfur	ppm	ASTM D5185m		4084	4042	3888
Oxidation	Abs/.1mm	*ASTM D7414	>25	26.6	24.3	24.3
Base Number (BN)	mg KOH/g	ASTM D2896		6.04	6.84	6.33
Visc @ 100°C	cSt	ASTM D445		15.4	15.0	14.7

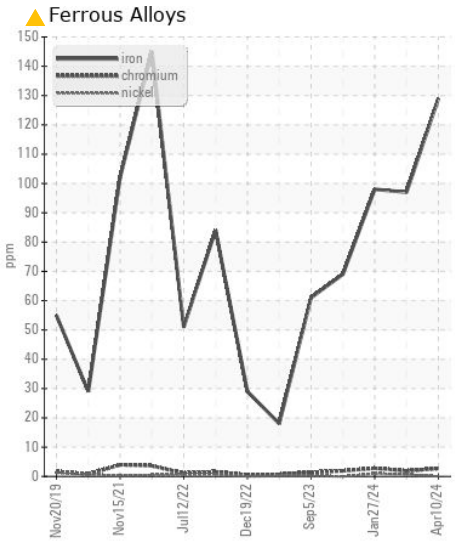


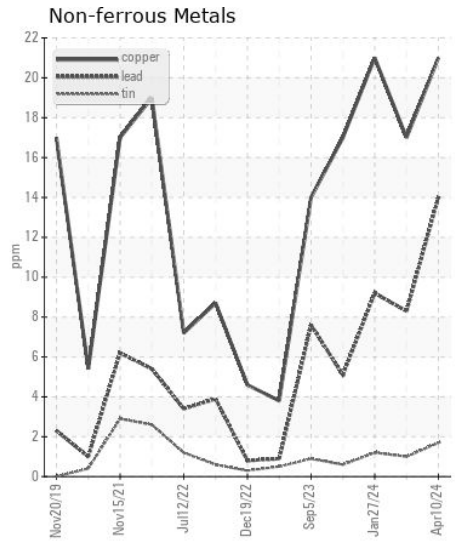


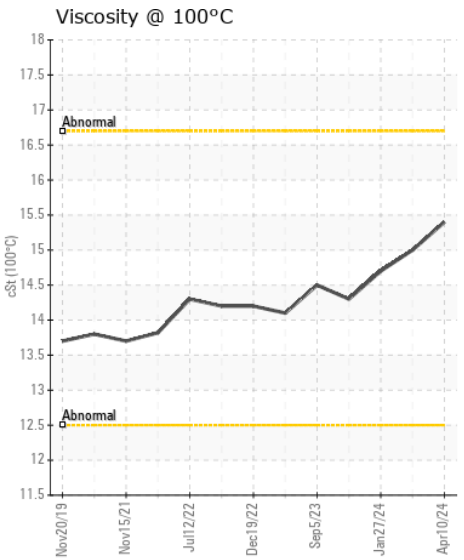


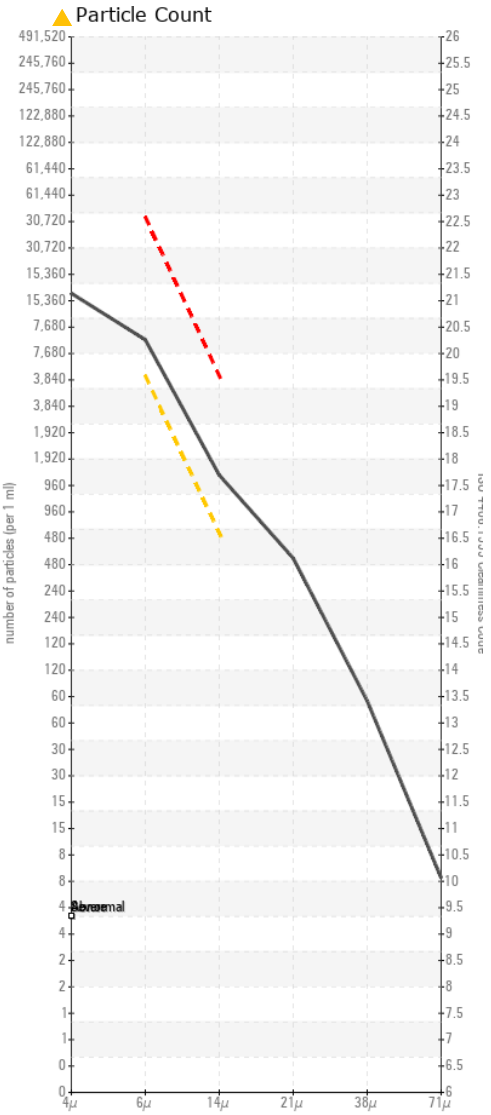


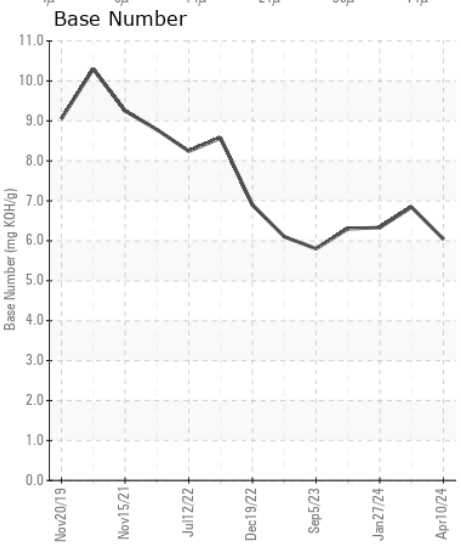












Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0013716
Lab Number : 06153313
Unique Number : 10983391
Test Package : MOB 2 (Additional Tests: PrtCount)

Received : 18 Apr 2024
Tested : 23 Apr 2024
Diagnosed : 23 Apr 2024 - Jonathan Hester

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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