MOBIL WEAR CHECK II

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
PETERBILT 20
Component
Diesel Engine
Fluid
MOBIL DELVAC 1300 SUPER15W40 (48 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

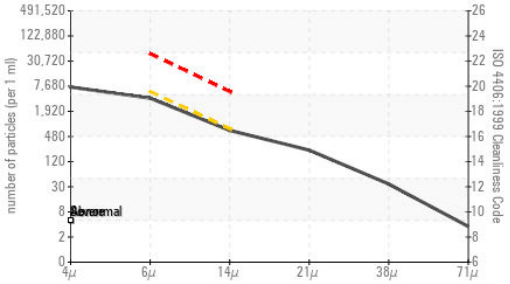
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

FLUID CONDITION

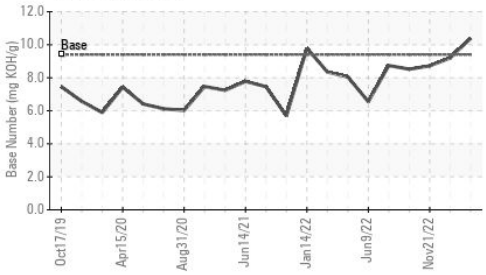
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**KL0011937**	KL0006549	KL0006544
Sample Date		Client Info		**24 May 2023**	18 Apr 2023	21 Nov 2022
Machine Age	mls	Client Info		**163000**	253000	232332
Oil Age	mls	Client Info		**20000**	10000	30000
Filter Age	mls	Client Info		**20000**	10000	30000
Oil Changed		Client Info		**Not Changd**	Not Changd	Not Changd
Filter Changed		Client Info		**Not Changd**	Not Changd	Not Changd
Sample Status				**NORMAL**	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>100	**18**	13	31
Chromium	ppm	ASTM D5185m	>20	**0**	0	<1
Nickel	ppm	ASTM D5185m	>4	**0**	0	<1
Titanium	ppm	ASTM D5185m		**0**	0	0
Silver	ppm	ASTM D5185m	>3	**0**	0	0
Aluminum	ppm	ASTM D5185m	>20	**14**	11	22
Lead	ppm	ASTM D5185m	>40	**0**	0	<1
Copper	ppm	ASTM D5185m	>330	**2**	<1	3
Tin	ppm	ASTM D5185m	>15	**<1**	0	<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	**9**	8	6
Potassium	ppm	ASTM D5185m	>20	**26**	17	50
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	**0.5**	0.3	0.6
Nitration	Abs/cm	*ASTM D7624	>20	**9.1**	7.2	10.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	**23.1**	22.5	23.4
Particles >4µm		ASTM D7647		**6368**	5342	1338
Particles >6µm		ASTM D7647	>5000	**3469**	2910	729
Particles >14µm		ASTM D7647	>640	**590**	495	124
Particles >21µm		ASTM D7647	>160	**199**	167	42
Particles >38µm		ASTM D7647	>40	**31**	26	6
Particles >71µm		ASTM D7647	>10	**3**	3	1
Oil Cleanliness		ISO 4406 (c)	>19/16	**19/16**	19/16	17/14
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**	1	2
Boron	ppm	ASTM D5185m	0	**24**	30	2
Barium	ppm	ASTM D5185m	0	**0**	0	0
Molybdenum	ppm	ASTM D5185m	0	**45**	43	61
Manganese	ppm	ASTM D5185m		**<1**	<1	<1
Magnesium	ppm	ASTM D5185m	0	**588**	555	955
Calcium	ppm	ASTM D5185m		**1888**	1624	1201
Phosphorus	ppm	ASTM D5185m		**800**	744	988
Zinc	ppm	ASTM D5185m		**981**	948	1240
Sulfur	ppm	ASTM D5185m		**3797**	3481	4376
Oxidation	Abs/.1mm	*ASTM D7414	>25	**22.6**	20.7	20.7
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	**10.39**	9.20	8.72
Visc @ 100°C	cSt	ASTM D445	14	**14.2**	13.7	14.5

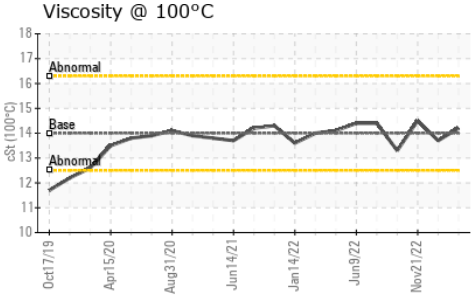
Particle Count



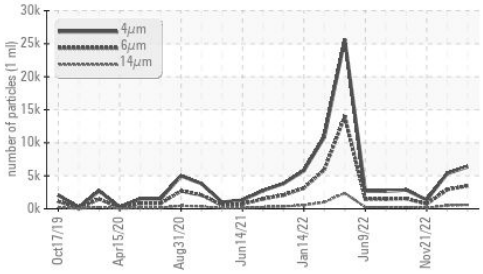
Base Number



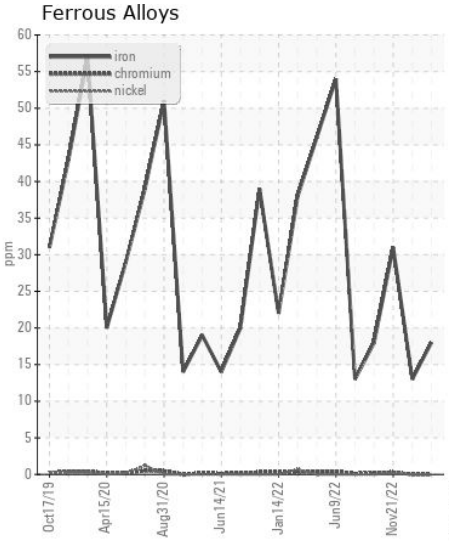
Viscosity @ 100°C



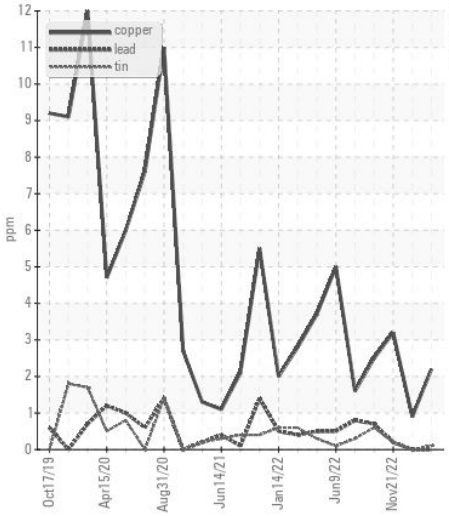
Particle Trend



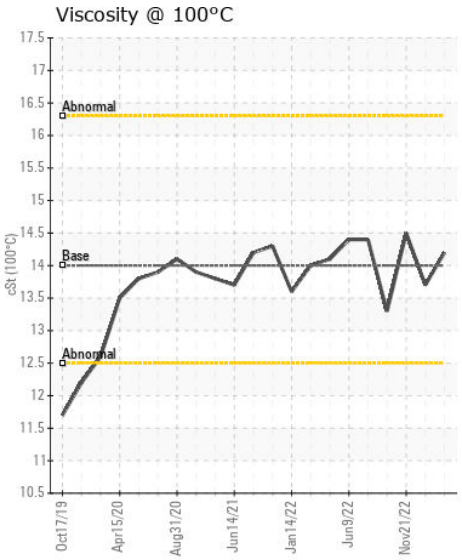
Ferrous Alloys



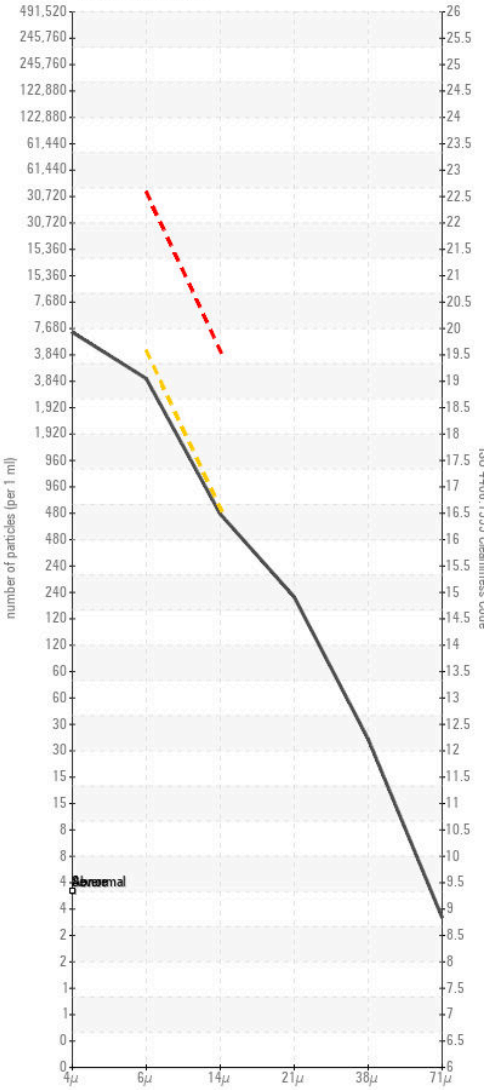
Non-ferrous Metals



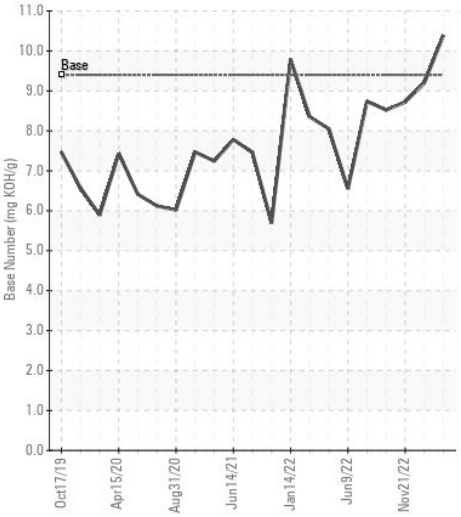
Viscosity @ 100°C



Particle Count



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0011937
Lab Number : 05871080
Unique Number : 10510864
Test Package : MOB 2 (Additional Tests: PrtCount)

Received : 12 Jun 2023
Tested : 13 Jun 2023
Diagnosed : 14 Jun 2023 - Sean Felton

BERRINGTON CUSTOM HAY
PO BOX 540
WELLINGTON, NV
US 89444
Contact: GARY BERRINGTON

T: (775)465-2264
F:

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)