MOBIL WEAR CHECK II

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
PETERBILT 22
Component
Diesel Engine
Fluid
MOBIL DELVAC 1300 SUPER15W40 (--- QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

Metal levels are typical for a new component breaking in.

CONTAMINATION

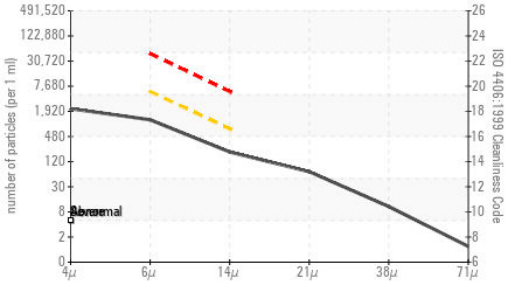
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

FLUID CONDITION

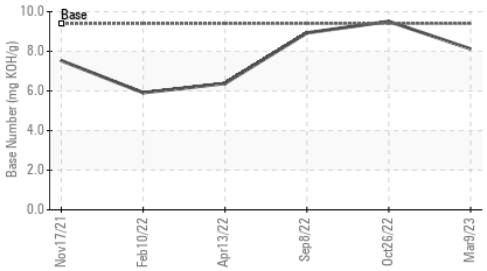
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		KL0006547	KL0006543	KL0006541
Sample Date		Client Info		09 Mar 2023	26 Oct 2022	08 Sep 2022
Machine Age	mls	Client Info		70093	60055	49916
Oil Age	mls	Client Info		31000	10000	10000
Filter Age	mls	Client Info		31000	10000	10000
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	N/A	Not Changd
Sample Status				NORMAL	ABNORMAL	NORMAL
Iron	ppm	ASTM D5185m	>110	61	31	18
Chromium	ppm	ASTM D5185m	>4	0	0	0
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	22	15	11
Lead	ppm	ASTM D5185m	>45	<1	1	<1
Copper	ppm	ASTM D5185m	>85	6	6	4
Tin	ppm	ASTM D5185m	>4	<1	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	>30	11	6	8
Potassium	ppm	ASTM D5185m	>20	57	48	29
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	0.6	0.5	0.3
Nitration	Abs/cm	*ASTM D7624	>20	10.9	11.1	8.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.5	23.5	21.6
Particles >4µm		ASTM D7647		1940	37676	3452
Particles >6µm		ASTM D7647	>5000	1057	▲ 20524	1880
Particles >14µm		ASTM D7647	>640	180	▲ 3493	320
Particles >21µm		ASTM D7647	>160	61	▲ 1177	108
Particles >38µm		ASTM D7647	>40	9	▲ 182	17
Particles >71µm		ASTM D7647	>10	1	● 19	2
Oil Cleanliness		ISO 4406 (c)	>19/16	17/15	▲ 22/19	18/15
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		<1	0	0
Boron	ppm	ASTM D5185m	0	9	6	2
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	59	58	56
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	0	1021	917	826
Calcium	ppm	ASTM D5185m		1598	1248	1173
Phosphorus	ppm	ASTM D5185m		1079	1000	939
Zinc	ppm	ASTM D5185m		1371	1233	1110
Sulfur	ppm	ASTM D5185m		4217	4081	3972
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.9	20.8	17.4
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	8.12	9.51	8.93
Visc @ 100°C	cSt	ASTM D445	14	14.2	14.1	13.7

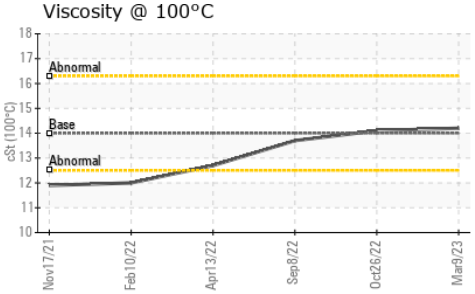
Particle Count



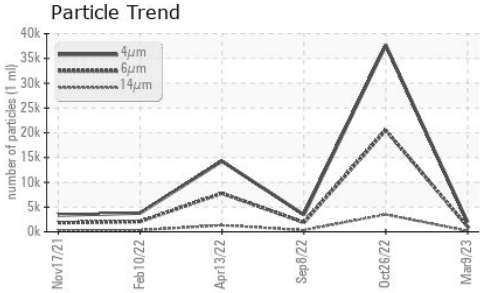
Base Number



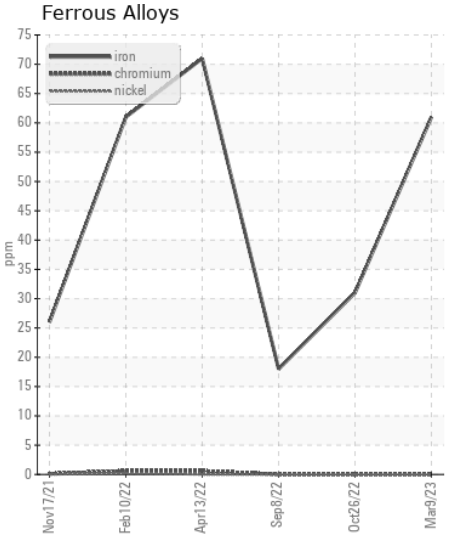
Viscosity @ 100°C



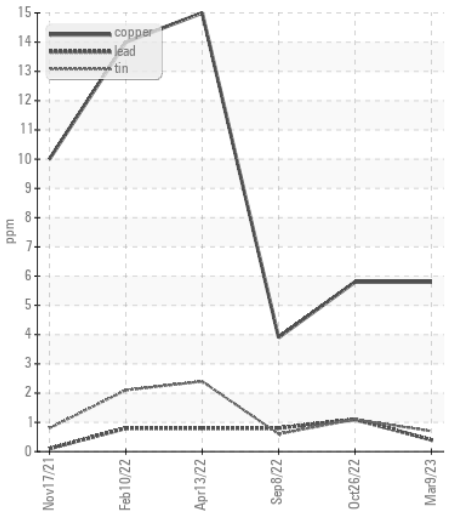
Particle Trend



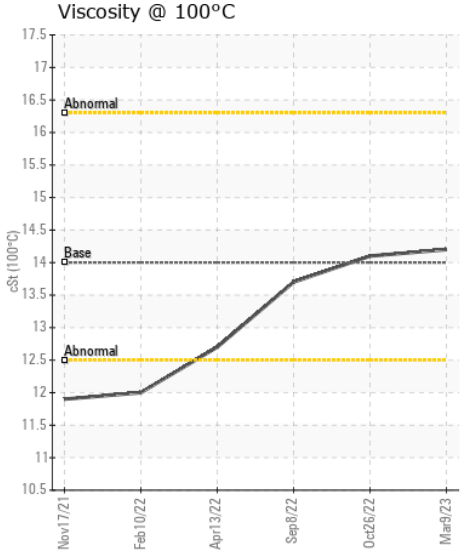
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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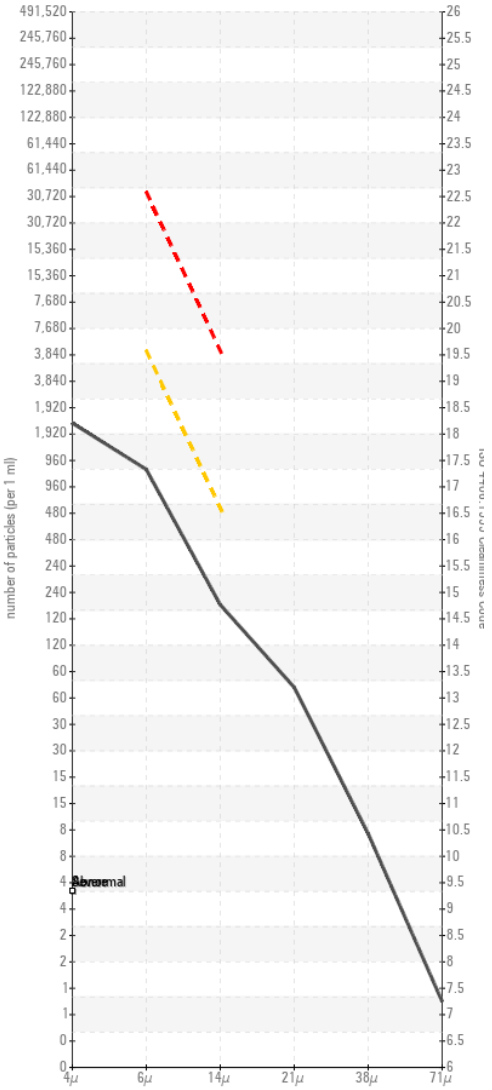
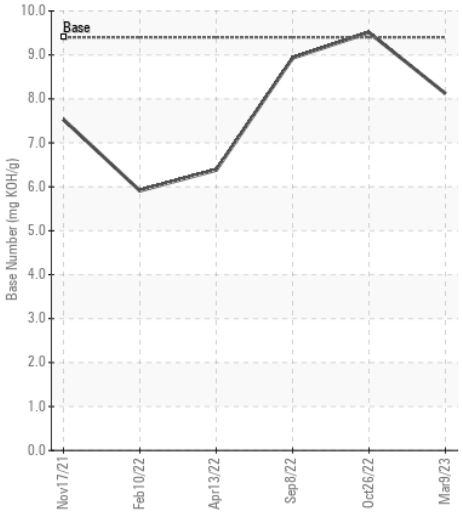


Base Number



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0006547
Lab Number : 05807806
Unique Number : 10405335
Test Package : MOB 2 (Additional Tests: PrtCount)

Received : 31 Mar 2023
Tested : 04 Apr 2023
Diagnosed : 04 Apr 2023 - Doug Bogart

Certificate L2367

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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