OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[44596181]
Machine Id
PETERBILT 9571515
Component
Diesel Engine
Fluid
MOBIL DELVAC MX 15W40 (44 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

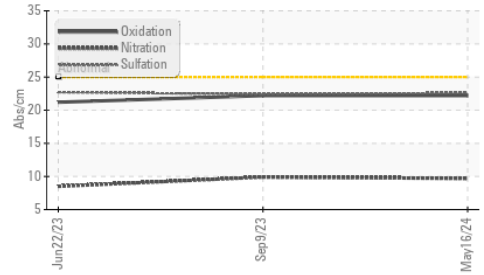
There is no indication of any contamination in the oil.

FLUID CONDITION

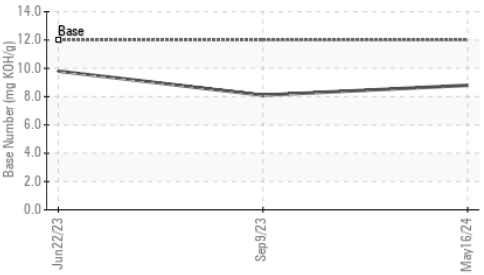
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RPL0016489	RPL0013608	RPL0012197
Sample Date		Client Info		16 May 2024	09 Sep 2023	22 Jun 2023
Machine Age	mls	Client Info		361743	311755	297263
Oil Age	mls	Client Info		16761	14492	9884
Filter Age	mls	Client Info		16761	14492	9884
Oil Changed		Client Info		Changed	Not Changd	Changed
Filter Changed		Client Info		Changed	Not Changd	Changed
Sample Status				NORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>100	16	12	7
Chromium	ppm	ASTM D5185m	>20	<1	0	<1
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	6	6	1
Lead	ppm	ASTM D5185m	>40	<1	<1	0
Copper	ppm	ASTM D5185m	>330	2	2	1
Tin	ppm	ASTM D5185m	>15	1	<1	0
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	10	12	10
Potassium	ppm	ASTM D5185m	>20	7	3	2
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	0.4	0.5	0.3
Nitration	Abs/cm	*ASTM D7624	>20	9.7	9.9	8.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.6	22.4	22.7
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	3	2
Boron	ppm	ASTM D5185m		35	23	39
Barium	ppm	ASTM D5185m		0	0	11
Molybdenum	ppm	ASTM D5185m		59	53	53
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		590	591	547
Calcium	ppm	ASTM D5185m		1753	1880	1684
Phosphorus	ppm	ASTM D5185m		717	805	770
Zinc	ppm	ASTM D5185m		1010	1011	967
Sulfur	ppm	ASTM D5185m		2709	2993	3031
Oxidation	Abs/.1mm	*ASTM D7414	>25	22.2	22.2	21.2
Base Number (BN)	mg KOH/g	ASTM D2896	12	8.8	8.1	9.8
Visc @ 100°C	cSt	ASTM D445	14.4	14.1	14.2	13.8

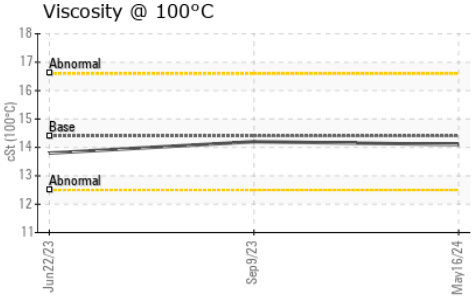
FT-IR (Direct Trend)



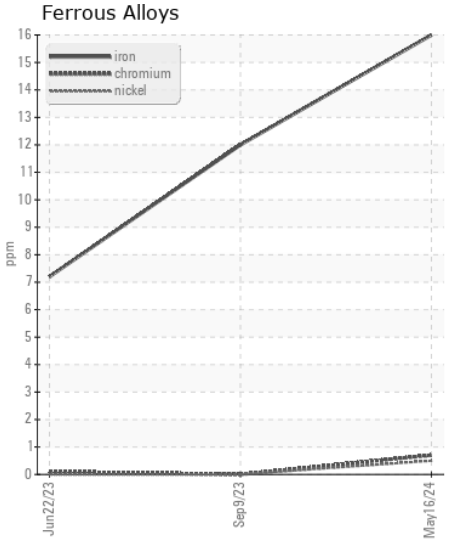
Base Number



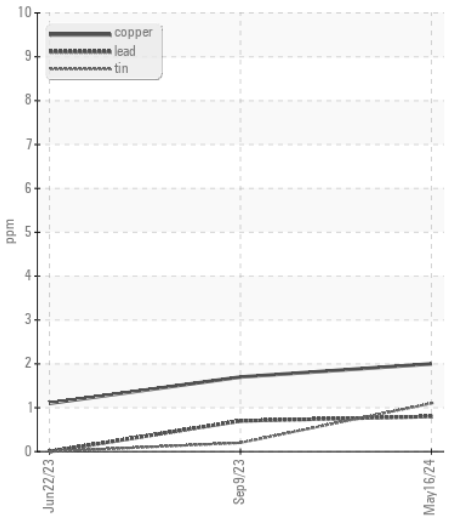
Viscosity @ 100°C



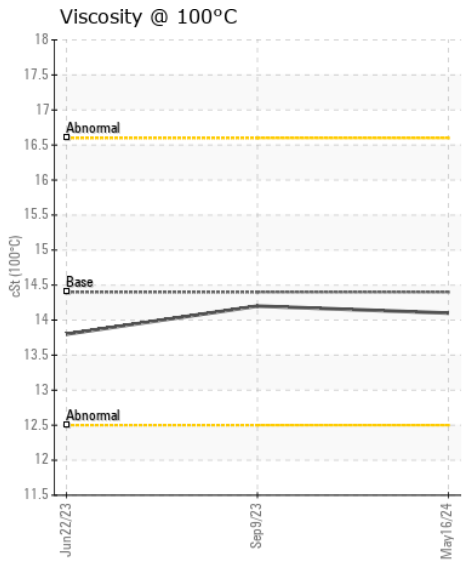
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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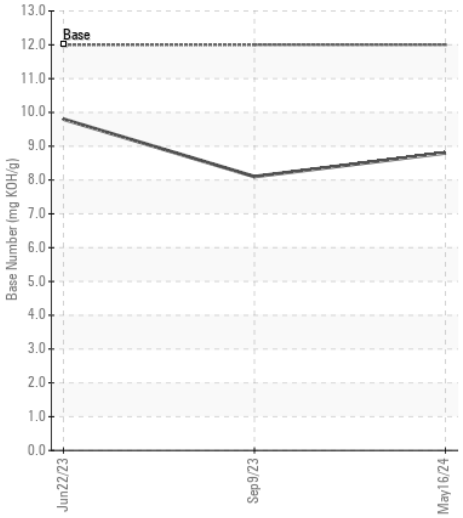

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RPL0016489
Lab Number : 06190266
Unique Number : 11047018
Test Package : FLEET

Received : 24 May 2024
Tested : 25 May 2024
Diagnosed : 25 May 2024 - Wes Davis

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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