OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

[44955852]

Machine Id

PETERBILT 9571552 BFS Contract Maintenance

Component

Diesel Engine

Fluid

MOBIL DELVAC MX 15W40 (40 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

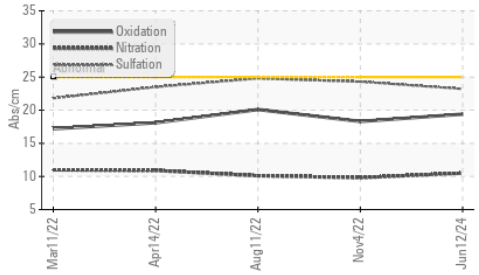
There is no indication of any contamination in the oil.

FLUID CONDITION

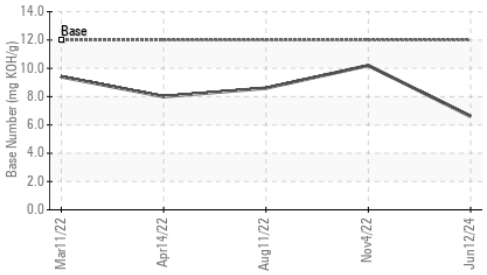
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RPL0016518	RPL0006789	RPL0001726
Sample Date		Client Info		12 Jun 2024	04 Nov 2022	11 Aug 2022
Machine Age	mls	Client Info		191246	140802	131698
Oil Age	mls	Client Info		26942	18856	9752
Filter Age	mls	Client Info		26942	18856	9752
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>100	25	10	6
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	<1	0	<1
Titanium	ppm	ASTM D5185m		<1	4	0
Silver	ppm	ASTM D5185m	>3	<1	0	<1
Aluminum	ppm	ASTM D5185m	>20	5	4	5
Lead	ppm	ASTM D5185m	>40	<1	<1	<1
Copper	ppm	ASTM D5185m	>330	3	1	1
Tin	ppm	ASTM D5185m	>15	1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	10	8	6
Potassium	ppm	ASTM D5185m	>20	7	2	5
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	0.6	0.2
Nitration	Abs/cm	*ASTM D7624	>20	10.5	9.8	10.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.2	24.3	24.8
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	<1	2
Boron	ppm	ASTM D5185m		4	247	193
Barium	ppm	ASTM D5185m		2	0	0
Molybdenum	ppm	ASTM D5185m		74	96	79
Manganese	ppm	ASTM D5185m		1	<1	<1
Magnesium	ppm	ASTM D5185m		965	620	476
Calcium	ppm	ASTM D5185m		1491	1547	1383
Phosphorus	ppm	ASTM D5185m		1221	696	1028
Zinc	ppm	ASTM D5185m		1490	840	1245
Sulfur	ppm	ASTM D5185m		3544	3001	3750
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.4	18.3	20.1
Base Number (BN)	mg KOH/g	ASTM D2896	12	6.6	10.2	8.6
Visc @ 100°C	cSt	ASTM D445	14.4	13.7	14.5	14.3

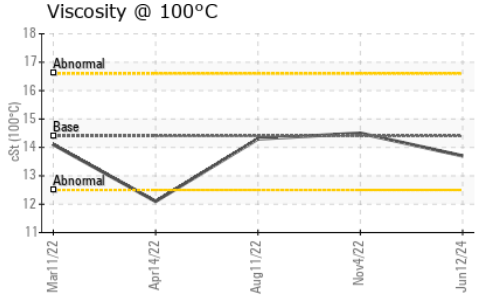
FT-IR (Direct Trend)



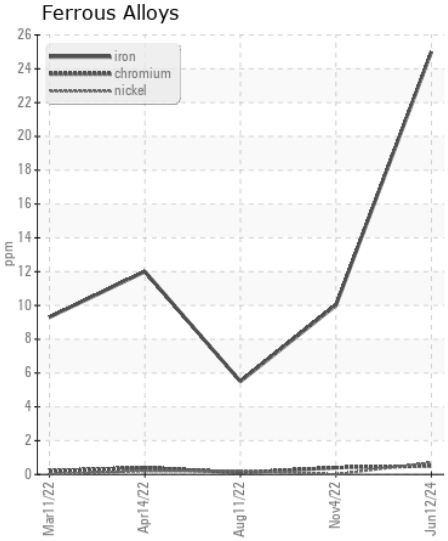
Base Number



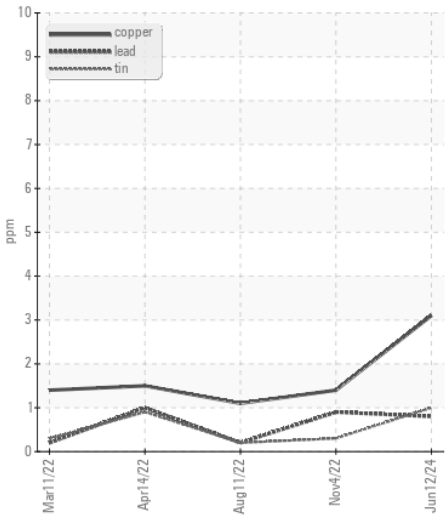
Viscosity @ 100°C



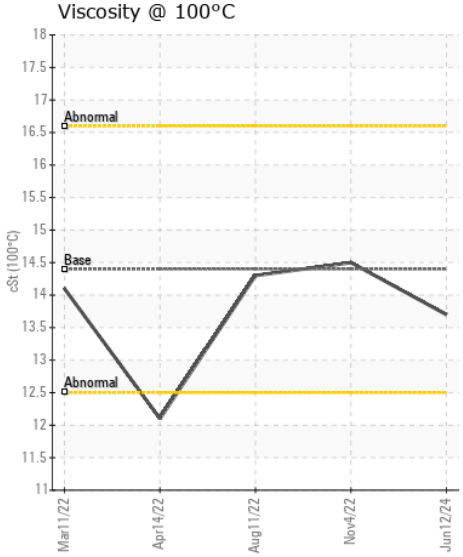
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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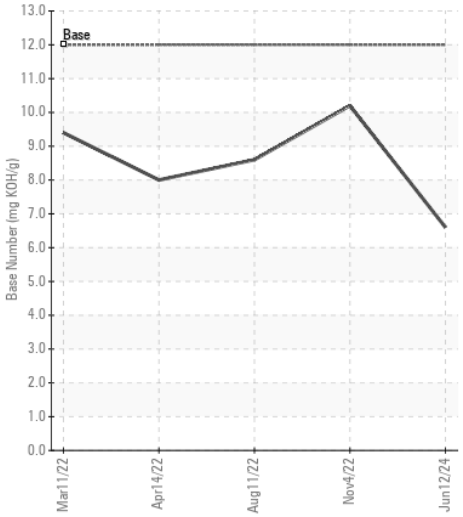

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RPL0016518
Lab Number : 06219339
Unique Number : 11097536
Test Package : FLEET

Received : 25 Jun 2024
Tested : 25 Jun 2024
Diagnosed : 25 Jun 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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