OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
PETERBILT 957-1650 Maxey Energy
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

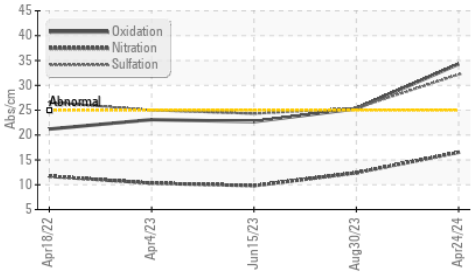
There is no indication of any contamination in the oil.

FLUID CONDITION

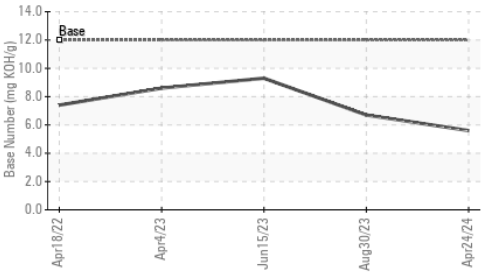
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RPL0016481	RPL0013592	RPL0012182
Sample Date		Client Info		24 Apr 2024	30 Aug 2023	15 Jun 2023
Machine Age	mls	Client Info		0	230892	206707
Oil Age	mls	Client Info		0	73150	19205
Filter Age	mls	Client Info		0	73150	19205
Oil Changed		Client Info		N/A	Changed	Not Changd
Filter Changed		Client Info		N/A	Changed	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>165	54	25	11
Chromium	ppm	ASTM D5185m	>5	2	1	<1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m	>2	0	0	<1
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	17	12	3
Lead	ppm	ASTM D5185m	>150	10	5	0
Copper	ppm	ASTM D5185m	>90	<1	1	<1
Tin	ppm	ASTM D5185m	>5	2	1	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>35	10	9	6
Potassium	ppm	ASTM D5185m	>20	26	16	8
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>7.5	1.7	1	0.5
Nitration	Abs/cm	*ASTM D7624	>20	16.5	12.4	9.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	32.2	25.4	24.3
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		4	4	2
Boron	ppm	ASTM D5185m		17	16	28
Barium	ppm	ASTM D5185m		1	0	11
Molybdenum	ppm	ASTM D5185m		47	48	42
Manganese	ppm	ASTM D5185m		1	1	<1
Magnesium	ppm	ASTM D5185m		591	583	493
Calcium	ppm	ASTM D5185m		1979	1942	1636
Phosphorus	ppm	ASTM D5185m		884	794	704
Zinc	ppm	ASTM D5185m		1056	1017	913
Sulfur	ppm	ASTM D5185m		2660	2782	2683
Oxidation	Abs/.1mm	*ASTM D7414	>25	34.3	25.3	22.7
Base Number (BN)	mg KOH/g	ASTM D2896	12	5.6	6.7	9.3
Visc @ 100°C	cSt	ASTM D445	14.4	14.6	14.2	13.5

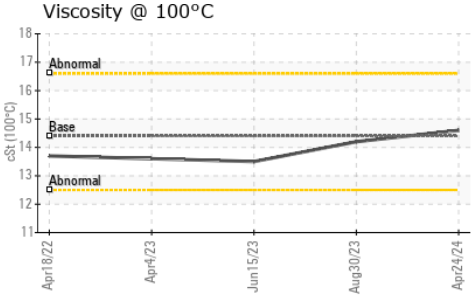
FT-IR (Direct Trend)



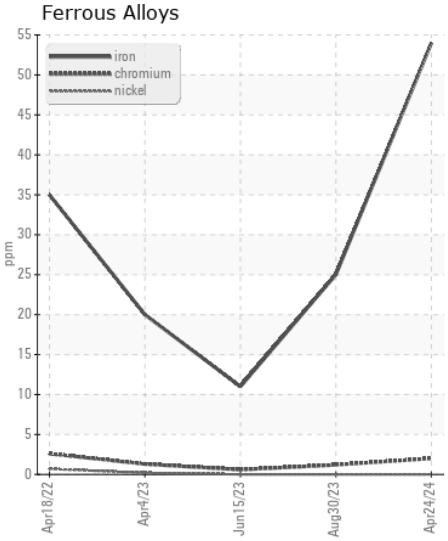
Base Number



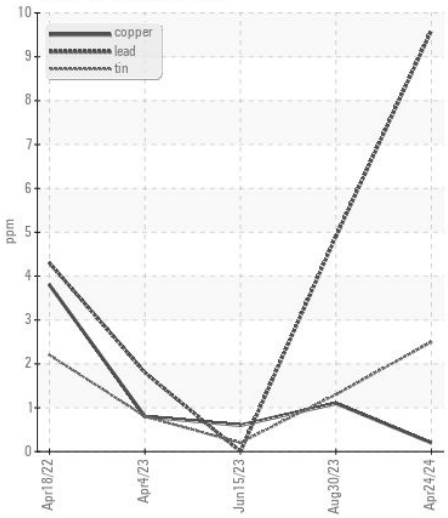
Viscosity @ 100°C



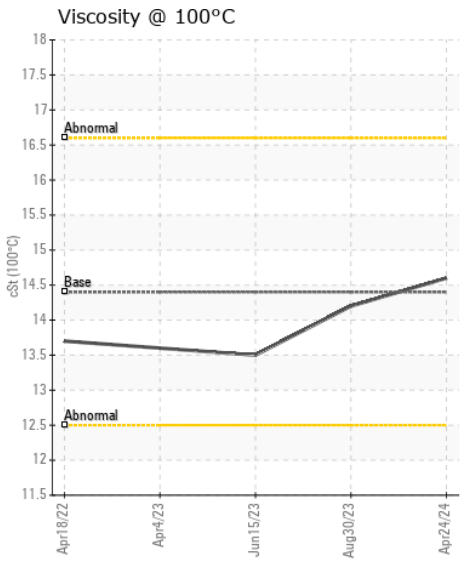
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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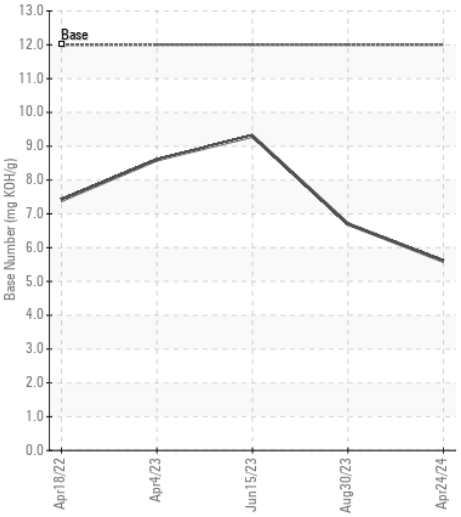

Certificate L2367

Laboratory	: WearCheck USA - 501 Madison Ave., Cary, NC 27513		
Sample No.	: RPL0016481	**Received**	: 14 May 2024
Lab Number	: 06178407	**Tested**	: 14 May 2024
Unique Number	: 11029733	**Diagnosed**	: 16 May 2024 - Sean Felton
Test Package	: FLEET		

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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