OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
PETERBILT 857-4168
Component
1 Diesel Engine
Fluid
MOBIL 15W40 (44 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

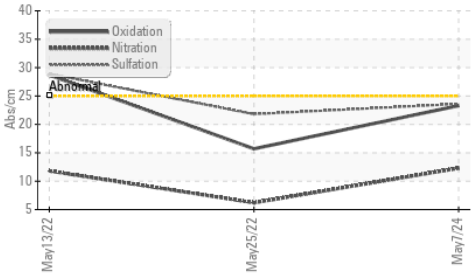
There is no indication of any contamination in the oil.

FLUID CONDITION

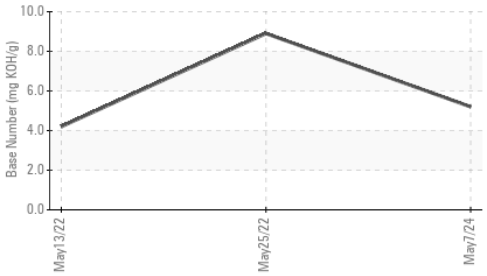
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RPL0011793	RPL0001297	RPL0001332
Sample Date		Client Info		07 May 2024	25 May 2022	13 May 2022
Machine Age	mls	Client Info		84455	52225	50464
Oil Age	mls	Client Info		19305	1761	24429
Filter Age	mls	Client Info		19305	1761	24429
Oil Changed		Client Info		Changed	N/A	Changed
Filter Changed		Client Info		Changed	N/A	Changed
Sample Status				NORMAL	NORMAL	SEVERE
Iron	ppm	ASTM D5185m	>165	27	8	54
Chromium	ppm	ASTM D5185m	>5	2	<1	4
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m	>2	0	0	<1
Silver	ppm	ASTM D5185m	>2	0	<1	<1
Aluminum	ppm	ASTM D5185m	>20	10	3	10
Lead	ppm	ASTM D5185m	>150	2	<1	3
Copper	ppm	ASTM D5185m	>90	<1	<1	4
Tin	ppm	ASTM D5185m	>5	<1	<1	2
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	>35	8	6	10
Potassium	ppm	ASTM D5185m	>20	25	5	30
Fuel		WC Method	>3.0	<1.0	0.1	▲ 10.8
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>7.5	0.7	0.2	0.7
Nitration	Abs/cm	*ASTM D7624	>20	12.3	6.2	11.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.6	21.8	28.9
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	>118	3	<1	2
Boron	ppm	ASTM D5185m		40	250	24
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		115	97	6
Manganese	ppm	ASTM D5185m		<1	<1	1
Magnesium	ppm	ASTM D5185m		676	699	680
Calcium	ppm	ASTM D5185m		1427	1357	1274
Phosphorus	ppm	ASTM D5185m		787	731	681
Zinc	ppm	ASTM D5185m		910	903	840
Sulfur	ppm	ASTM D5185m		3510	2624	2374
Oxidation	Abs/.1mm	*ASTM D7414	>25	23.3	15.7	28.7
Base Number (BN)	mg KOH/g	ASTM D2896		5.2	8.9	4.2
Visc @ 100°C	cSt	ASTM D445		13.0	14.1	▲ 10.6

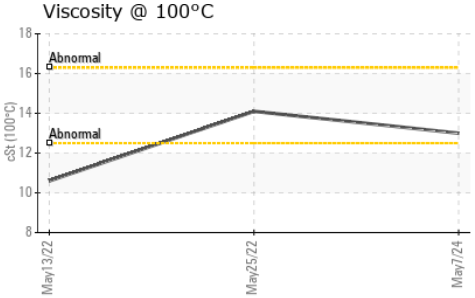
FT-IR (Direct Trend)



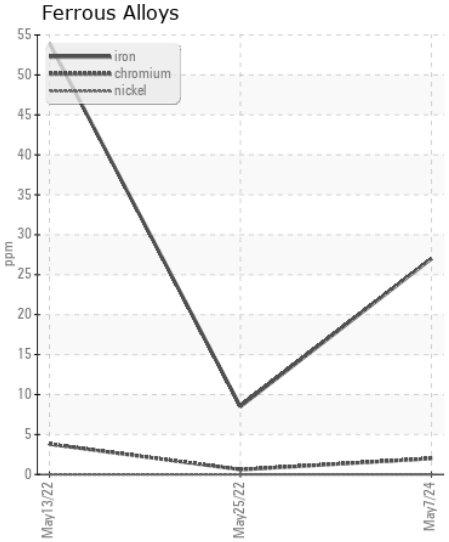
Base Number



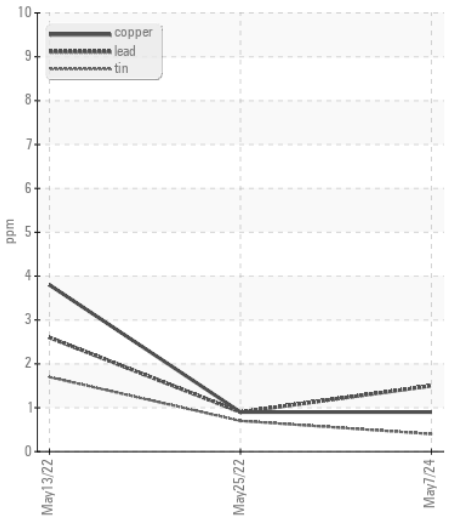
Viscosity @ 100°C



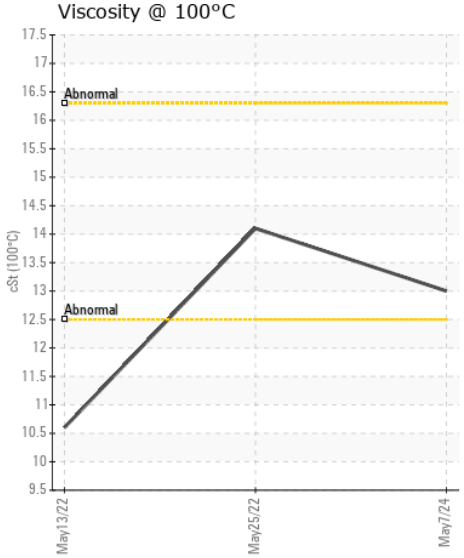
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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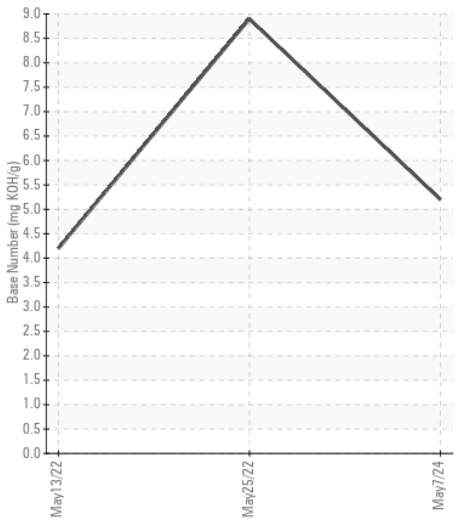

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RPL0011793
Lab Number : 06176901
Unique Number : 11022954
Test Package : FLEET

Received : 13 May 2024
Tested : 14 May 2024
Diagnosed : 14 May 2024 - Sean Felton

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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