OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
PETERBILT 9571682
Component
Diesel Engine
Fluid
MOBIL 15W40 (45 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

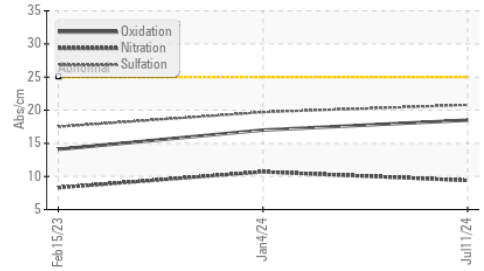
There is no indication of any contamination in the oil.

FLUID CONDITION

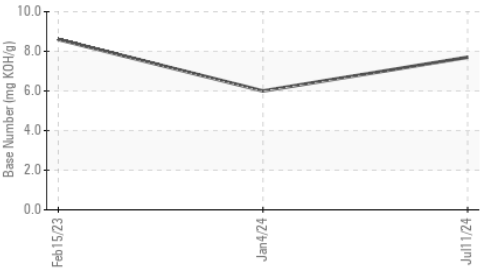
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RPL0018018	RPL0012538	RPL0006293
Sample Date		Client Info		11 Jul 2024	04 Jan 2024	15 Feb 2023
Machine Age	mls	Client Info		0	95106	22132
Oil Age	mls	Client Info		0	21640	0
Filter Age	mls	Client Info		0	21640	0
Oil Changed		Client Info		N/A	Changed	Changed
Filter Changed		Client Info		N/A	Changed	Changed
Sample Status				NORMAL	NORMAL	ATTENTION
Iron	ppm	ASTM D5185m	>90	18	20	67
Chromium	ppm	ASTM D5185m	>20	<1	1	4
Nickel	ppm	ASTM D5185m	>2	<1	<1	<1
Titanium	ppm	ASTM D5185m	>2	<1	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	9	11	82
Lead	ppm	ASTM D5185m	>40	<1	<1	3
Copper	ppm	ASTM D5185m	>330	1	1	32
Tin	ppm	ASTM D5185m	>15	<1	<1	2
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	7	8	45
Potassium	ppm	ASTM D5185m	>20	18	21	265
Fuel	%	ASTM D3524	>3.0	<1.0	<1.0	0.9
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>6	0.4	0.4	0.2
Nitration	Abs/cm	*ASTM D7624	>20	9.4	10.7	8.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.8	19.7	17.5
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	1	2	8
Boron	ppm	ASTM D5185m		41	45	36
Barium	ppm	ASTM D5185m		0	0	4
Molybdenum	ppm	ASTM D5185m		90	116	16
Manganese	ppm	ASTM D5185m		<1	<1	7
Magnesium	ppm	ASTM D5185m		578	677	710
Calcium	ppm	ASTM D5185m		1551	1237	1292
Phosphorus	ppm	ASTM D5185m		799	653	660
Zinc	ppm	ASTM D5185m		955	823	777
Sulfur	ppm	ASTM D5185m		2496	2865	3106
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.5	17.0	14.1
Base Number (BN)	mg KOH/g	ASTM D2896		7.7	6.0	8.6
Visc @ 100°C	cSt	ASTM D445		12.3	12.6	11.2

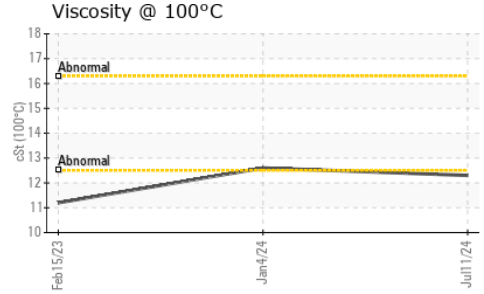
FT-IR (Direct Trend)



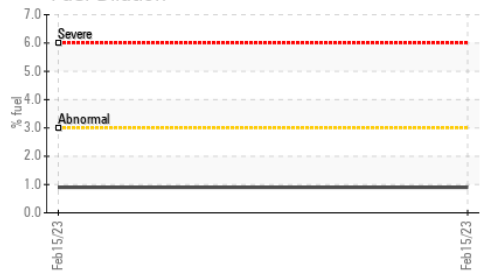
Base Number



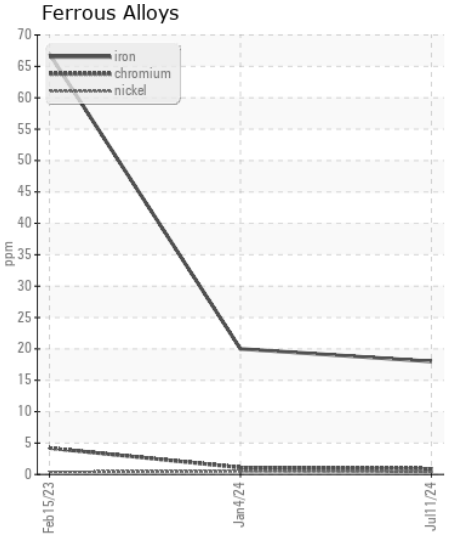
Viscosity @ 100°C



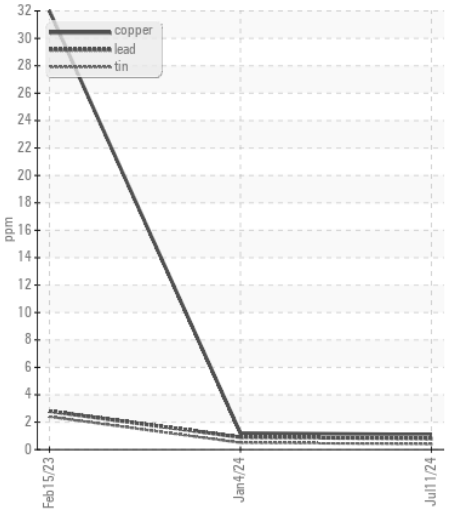
Fuel Dilution



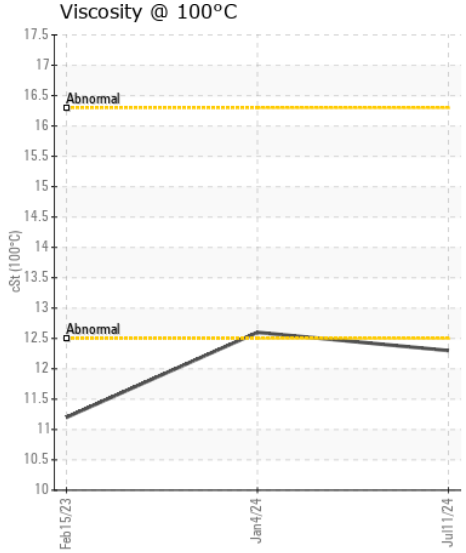
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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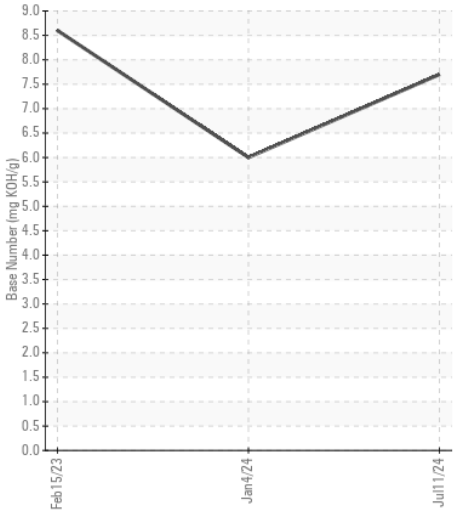

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RPL0018018 **Received** : 12 Jul 2024
Lab Number : 06234605 **Tested** : 15 Jul 2024
Unique Number : 11123439 **Diagnosed** : 15 Jul 2024 - Sean Felton
Test Package : FLEET (Additional Tests: FuelDilution)

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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