OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
PETERBILT 139364
Component
Diesel Engine
Fluid
MOBIL 15W40 (46 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

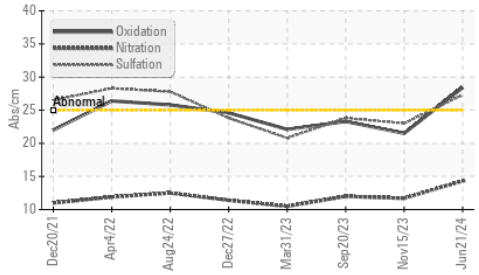
There is no indication of any contamination in the oil.

FLUID CONDITION

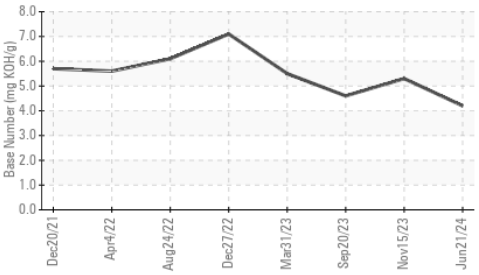
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RPL0011808	RPL0011703	RPL0011668
Sample Date		Client Info		21 Jun 2024	15 Nov 2023	20 Sep 2023
Machine Age	mls	Client Info		357852	314362	288705
Oil Age	mls	Client Info		43490	25657	41462
Filter Age	mls	Client Info		43490	25657	41462
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>165	38	17	27
Chromium	ppm	ASTM D5185m	>5	2	<1	1
Nickel	ppm	ASTM D5185m	>4	0	0	<1
Titanium	ppm	ASTM D5185m	>2	0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	12	11	9
Lead	ppm	ASTM D5185m	>150	10	6	7
Copper	ppm	ASTM D5185m	>90	1	1	1
Tin	ppm	ASTM D5185m	>5	1	<1	1
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	10	8	8
Potassium	ppm	ASTM D5185m	>20	21	19	19
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	0.7	0.7
Nitration	Abs/cm	*ASTM D7624	>20	14.3	11.7	12.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	27.3	23.0	23.8
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	>118	3	<1	<1
Boron	ppm	ASTM D5185m		32	31	26
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		124	116	120
Manganese	ppm	ASTM D5185m		1	0	<1
Magnesium	ppm	ASTM D5185m		695	611	632
Calcium	ppm	ASTM D5185m		1281	1308	1506
Phosphorus	ppm	ASTM D5185m		714	706	843
Zinc	ppm	ASTM D5185m		872	876	1024
Sulfur	ppm	ASTM D5185m		3289	3138	3318
Oxidation	Abs/.1mm	*ASTM D7414	>25	28.4	21.5	23.3
Base Number (BN)	mg KOH/g	ASTM D2896		4.2	5.3	4.6
Visc @ 100°C	cSt	ASTM D445		12.8	13.4	13.1

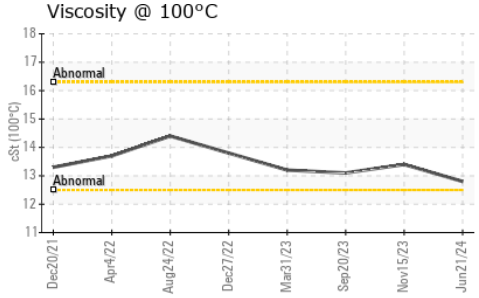
FT-IR (Direct Trend)



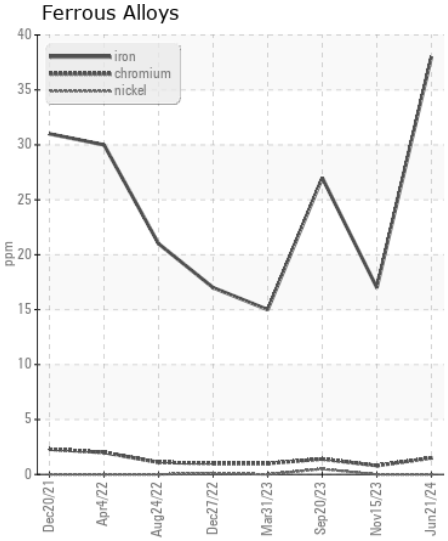
Base Number



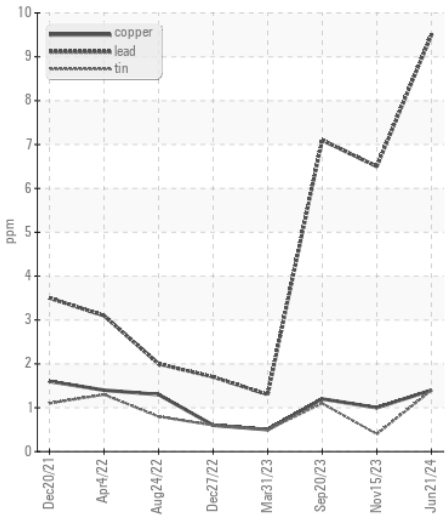
Viscosity @ 100°C



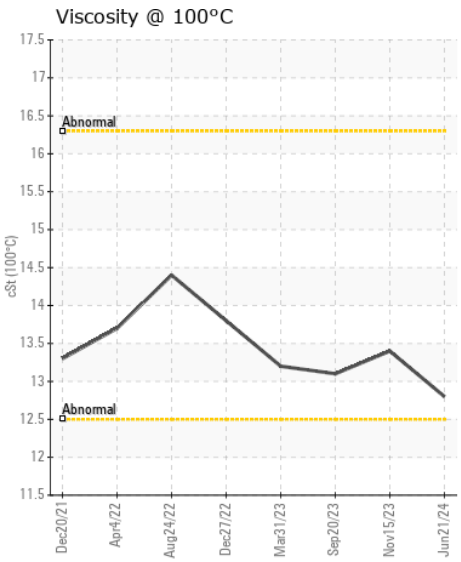
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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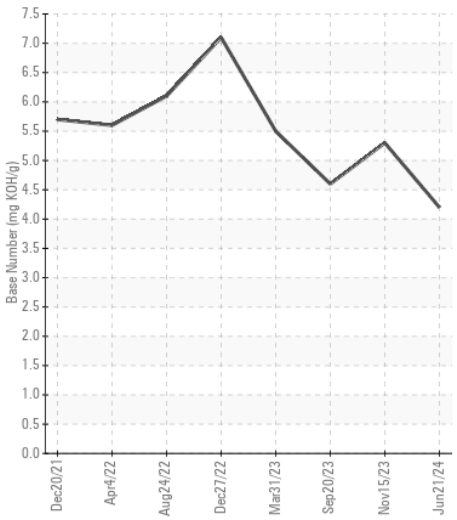

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RPL0011808
Lab Number : 06220633
Unique Number : 11098830
Test Package : FLEET

Received : 26 Jun 2024
Tested : 27 Jun 2024
Diagnosed : 27 Jun 2024 - Angela Borella

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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