OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION

Machine Id
PETERBILT 8465159
Component
Diesel Engine
Fluid
MOBIL DELVAC 1300 SUPER 15W40 (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

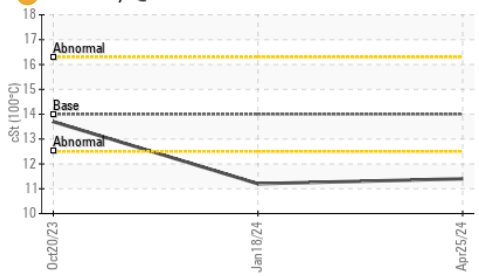
Fuel content negligible. Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

FLUID CONDITION

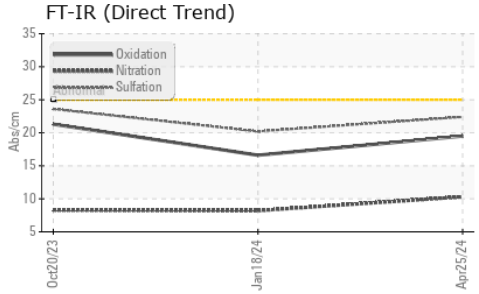
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RPL0019259	RPL0016882	RPL0015862
Sample Date		Client Info		25 Apr 2024	18 Jan 2024	20 Oct 2023
Machine Age	mls	Client Info		32098	19783	8080
Oil Age	mls	Client Info		19783	0	0
Filter Age	mls	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ATTENTION	ATTENTION	NORMAL
Iron	ppm	ASTM D5185m	>110	50	42	14
Chromium	ppm	ASTM D5185m	>4	2	1	<1
Nickel	ppm	ASTM D5185m	>2	0	<1	0
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>2	<1	<1	0
Aluminum	ppm	ASTM D5185m	>25	46	44	4
Lead	ppm	ASTM D5185m	>45	4	3	<1
Copper	ppm	ASTM D5185m	>85	28	33	11
Tin	ppm	ASTM D5185m	>4	4	2	<1
Vanadium	ppm	ASTM D5185m		0	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>30	38	42	5
Potassium	ppm	ASTM D5185m	>20	123	107	3
Fuel		WC Method	>5	<1.0	1.7	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.2	0.1	0.8
Nitration	Abs/cm	*ASTM D7624	>20	10.3	8.2	8.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.4	20.2	23.6
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		6	4	<1
Boron	ppm	ASTM D5185m	0	30	51	36
Barium	ppm	ASTM D5185m	0	2	0	0
Molybdenum	ppm	ASTM D5185m	0	13	14	42
Manganese	ppm	ASTM D5185m		6	5	0
Magnesium	ppm	ASTM D5185m	0	742	820	505
Calcium	ppm	ASTM D5185m		1370	1464	1699
Phosphorus	ppm	ASTM D5185m		732	807	756
Zinc	ppm	ASTM D5185m		875	928	919
Sulfur	ppm	ASTM D5185m		3047	3465	2646
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.5	16.6	21.3
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	5.5	7.6	10.1
Visc @ 100°C	cSt	ASTM D445	14	11.4	11.2	13.7

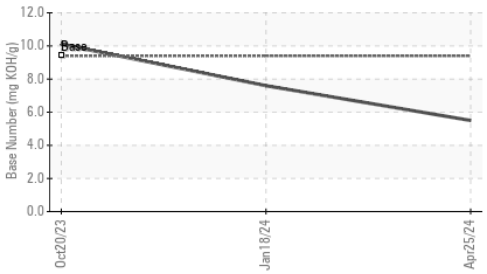
Viscosity @ 100°C



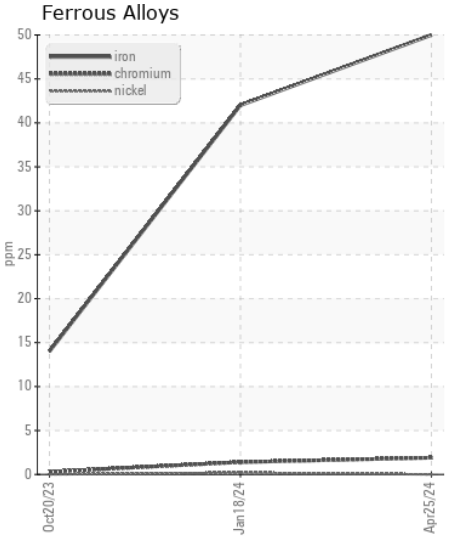
FT-IR (Direct Trend)



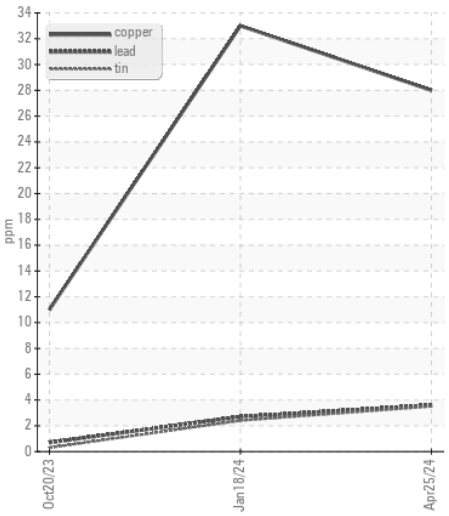
Base Number



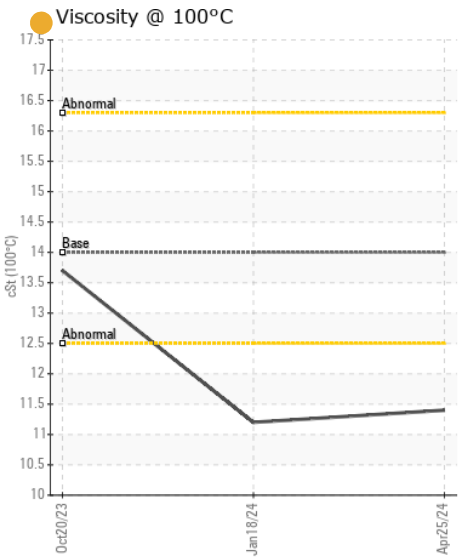
Ferrous Alloys



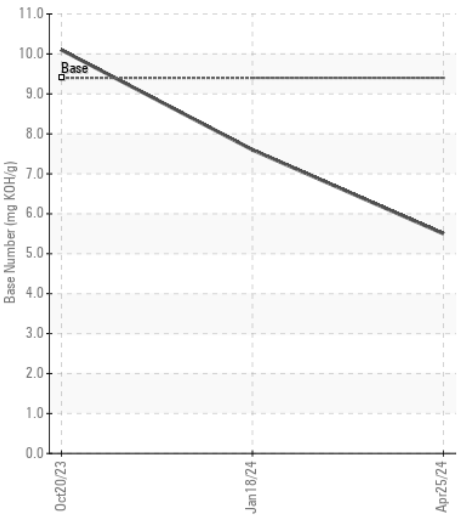
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RPL0019259
Lab Number : 06225856
Unique Number : 11109349
Test Package : FLEET

Received : 02 Jul 2024
Tested : 03 Jul 2024
Diagnosed : 03 Jul 2024 - Jonathan Hester

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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