OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
PETERBILT 117354
Component
Diesel Engine
Fluid
CHEVRON 15W40 (20 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

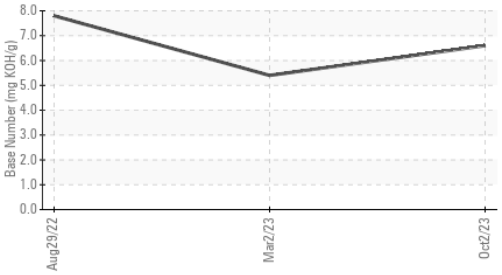
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

FLUID CONDITION

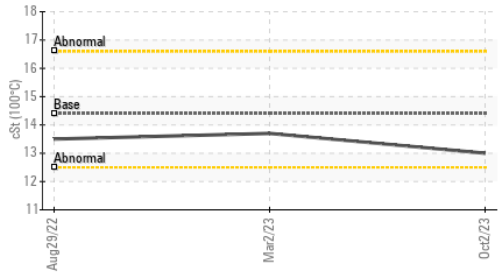
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RPL0009867	RPL0009922	RPL0003442
Sample Date		Client Info		02 Oct 2023	02 Mar 2023	29 Aug 2022
Machine Age	mls	Client Info		111830	111830	111830
Oil Age	mls	Client Info		111830	111830	0
Filter Age	mls	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	Changed
Filter Changed		Client Info		N/A	N/A	Changed
Sample Status				NORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>100	19	73	16
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m		<1	2	0
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	7	2	15
Lead	ppm	ASTM D5185m	>40	<1	4	<1
Copper	ppm	ASTM D5185m	>330	1	38	<1
Tin	ppm	ASTM D5185m	>15	<1	2	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	8	9	9
Potassium	ppm	ASTM D5185m	>20	12	7	23
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.4	0.7	0.4
Nitration	Abs/cm	*ASTM D7624	>20	8.8	12.7	8.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.9	25.5	23.3
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	>50	0	2	0
Boron	ppm	ASTM D5185m		236	28	346
Barium	ppm	ASTM D5185m		0	0	2
Molybdenum	ppm	ASTM D5185m		88	79	100
Manganese	ppm	ASTM D5185m		<1	1	<1
Magnesium	ppm	ASTM D5185m		399	391	418
Calcium	ppm	ASTM D5185m		1441	1543	1564
Phosphorus	ppm	ASTM D5185m		931	1021	1195
Zinc	ppm	ASTM D5185m		1324	1240	1415
Sulfur	ppm	ASTM D5185m		3221	2708	3559
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.7	26.2	17.3
Base Number (BN)	mg KOH/g	ASTM D2896		6.6	5.4	7.8
Visc @ 100°C	cSt	ASTM D445	14.4	13.0	13.7	13.5

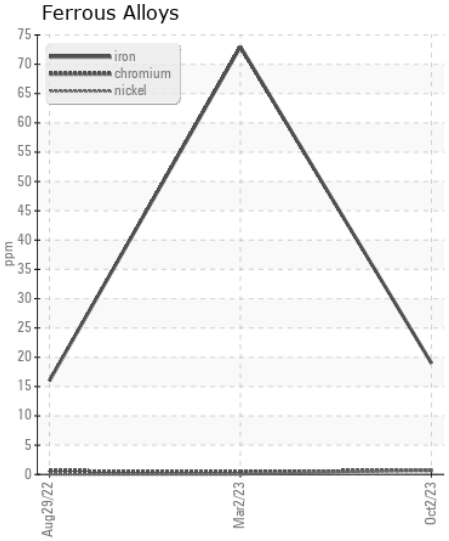
Base Number



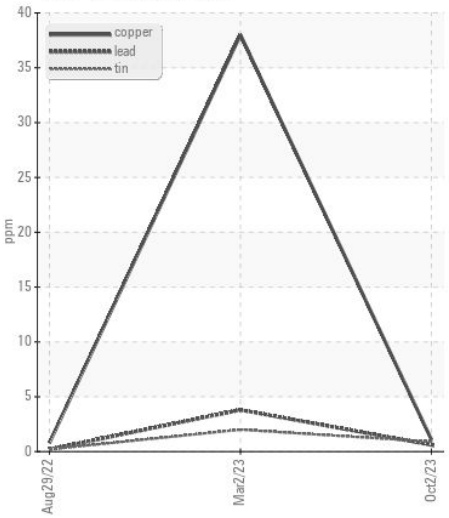
Viscosity @ 100°C



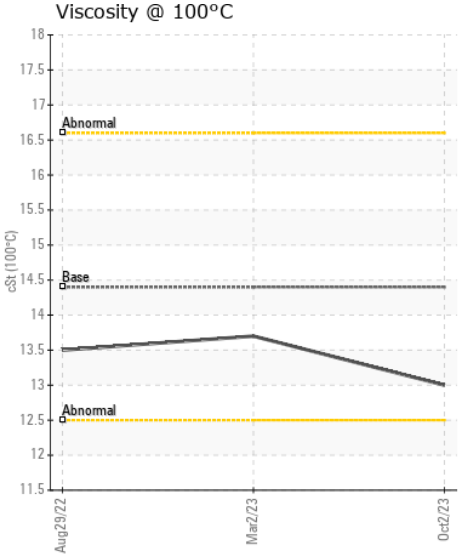
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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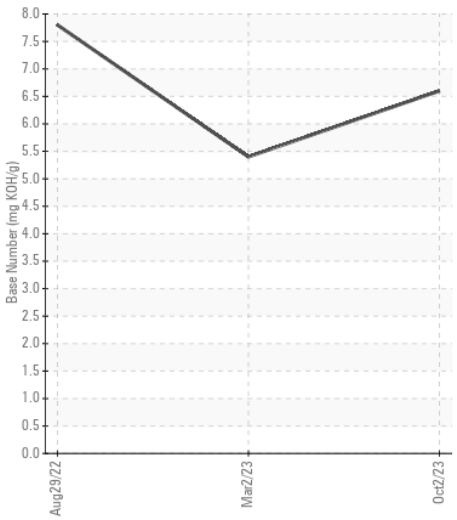

Certificate L2367

Laboratory	: WearCheck USA - 501 Madison Ave., Cary, NC 27513		
Sample No.	: RPL0009867	**Recieved**	: 09 Jan 2024
Lab Number	: 06055206	**Diagnosed**	: 10 Jan 2024
Unique Number	: 10821155	**Diagnostician**	: Wes Davis
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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