OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	ATTENTION

Area
[43027406]
Machine Id
PETERBILT 957-1987 Rental Unit
Component
Diesel Engine
Fluid
MOBIL DELVAC MX 15W40 (42 QTS)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

WEAR

Metal levels are typical for a new component breaking in.

CONTAMINATION

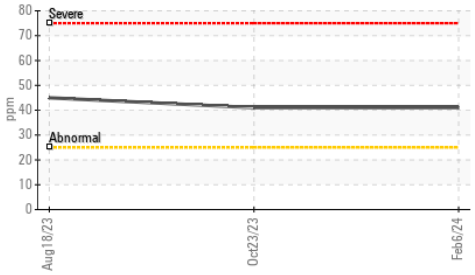
Elemental level of silicon (Si) above normal indicating ingress of seal material. Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components.

FLUID CONDITION

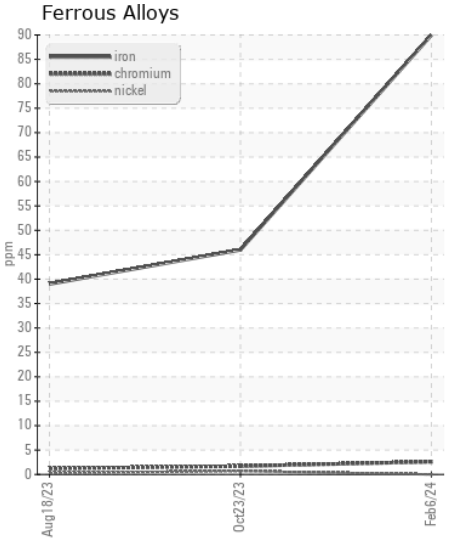
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RPL0016418	RPL0013675	RPL0013579
Sample Date		Client Info		06 Feb 2024	23 Oct 2023	18 Aug 2023
Machine Age	mls	Client Info		37464	13455	4405
Oil Age	mls	Client Info		37464	13455	4405
Filter Age	mls	Client Info		37464	13455	4405
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Filter Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>90	90	46	39
Chromium	ppm	ASTM D5185m	>20	3	2	1
Nickel	ppm	ASTM D5185m	>2	0	<1	<1
Titanium	ppm	ASTM D5185m	>2	0	<1	<1
Silver	ppm	ASTM D5185m	>2	<1	1	<1
Aluminum	ppm	ASTM D5185m	>20	40	28	22
Lead	ppm	ASTM D5185m	>40	5	4	2
Copper	ppm	ASTM D5185m	>330	30	29	20
Tin	ppm	ASTM D5185m	>15	3	3	2
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	>25	▲ 41	▲ 41	▲ 45
Potassium	ppm	ASTM D5185m	>20	130	91	61
Fuel		WC Method	>3.0	<1.0	<1.0	0.4
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>6	0.3	0.2	0.1
Nitration	Abs/cm	*ASTM D7624	>20	11.0	9.2	7.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.4	19.2	17.8
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		2	7	6
Boron	ppm	ASTM D5185m		32	45	106
Barium	ppm	ASTM D5185m		12	3	0
Molybdenum	ppm	ASTM D5185m		23	11	11
Manganese	ppm	ASTM D5185m		6	6	6
Magnesium	ppm	ASTM D5185m		695	710	787
Calcium	ppm	ASTM D5185m		1171	1153	1384
Phosphorus	ppm	ASTM D5185m		658	705	746
Zinc	ppm	ASTM D5185m		812	795	869
Sulfur	ppm	ASTM D5185m		2522	2515	3565
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.1	15.1	13.0
Base Number (BN)	mg KOH/g	ASTM D2896	12	5.0	7.3	8.4
Visc @ 100°C	cSt	ASTM D445	14.4	▲ 11.8	▲ 11.6	▲ 11.6

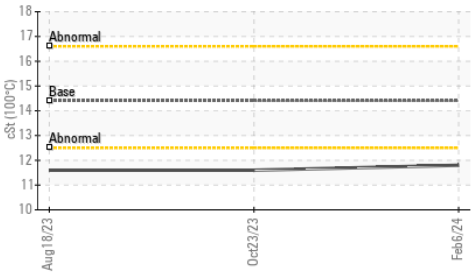
Silicon (ppm)



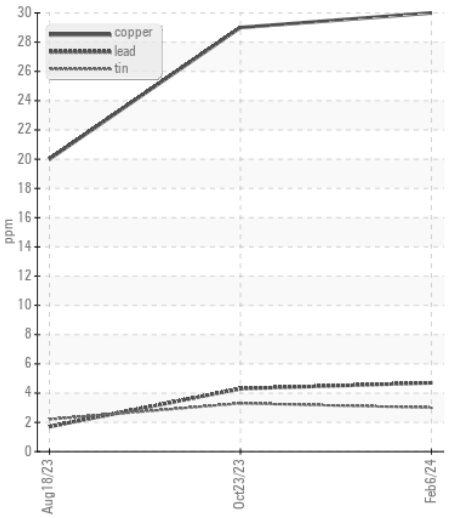
Ferrous Alloys



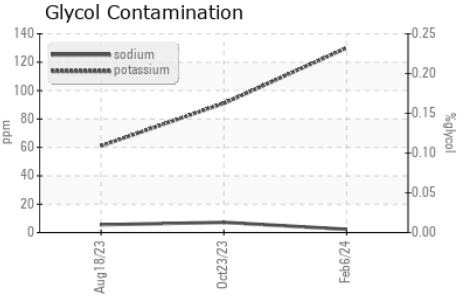
Viscosity @ 100°C



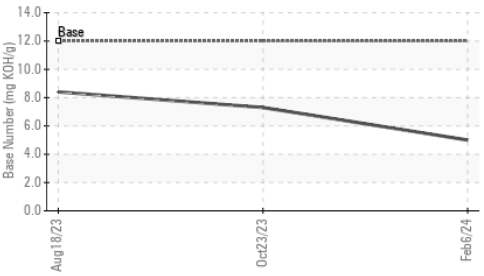
Non-ferrous Metals



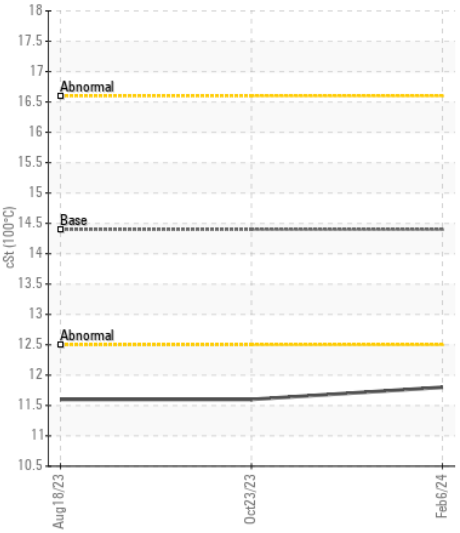
Glycol Contamination



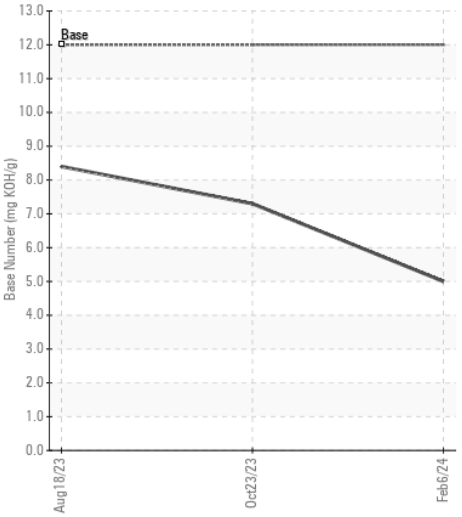
Base Number



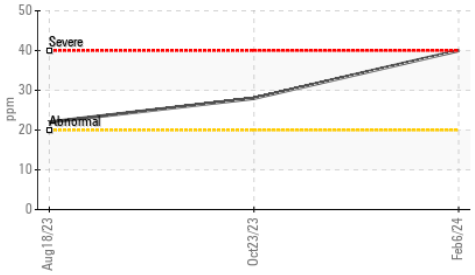
Viscosity @ 100°C



Base Number



Aluminum (ppm)



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RPL0016418
Lab Number : 06088524
Unique Number : 10875969
Test Package : FLEET

Received : 14 Feb 2024
Tested : 15 Feb 2024
Diagnosed : 15 Feb 2024 - Don Baldridge

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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