OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[44228818]
Machine Id
PETERBILT 957-1656 Speed Industrial
Component
Diesel Engine
Fluid
MOBIL DELVAC MX 15W40 (23 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

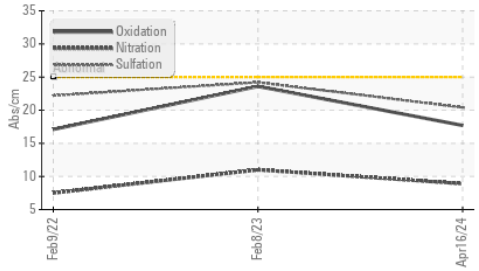
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

FLUID CONDITION

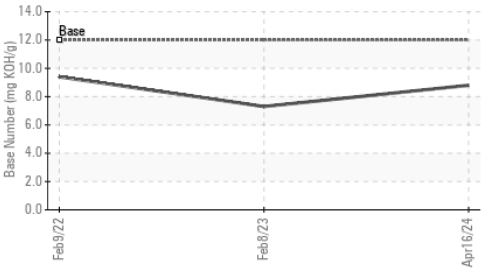
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RPL0016477	RPL0006716	RPL0001458
Sample Date		Client Info		16 Apr 2024	08 Feb 2023	09 Feb 2022
Machine Age	mls	Client Info		76022	39951	19867
Oil Age	mls	Client Info		30787	16076	19867
Filter Age	mls	Client Info		30787	16076	19687
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>110	14	22	16
Chromium	ppm	ASTM D5185m	>4	<1	0	<1
Nickel	ppm	ASTM D5185m	>2	0	0	1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	25	31	16
Lead	ppm	ASTM D5185m	>45	0	0	<1
Copper	ppm	ASTM D5185m	>85	0	1	4
Tin	ppm	ASTM D5185m	>4	<1	<1	0
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	>30	3	7	10
Potassium	ppm	ASTM D5185m	>20	44	55	46
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	0.3	0.5	0.1
Nitration	Abs/cm	*ASTM D7624	>20	8.9	11.0	7.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.4	24.2	22.2
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		<1	1	<1
Boron	ppm	ASTM D5185m		9	81	292
Barium	ppm	ASTM D5185m		1	0	1
Molybdenum	ppm	ASTM D5185m		63	59	79
Manganese	ppm	ASTM D5185m		<1	1	2
Magnesium	ppm	ASTM D5185m		902	471	396
Calcium	ppm	ASTM D5185m		1233	1658	1621
Phosphorus	ppm	ASTM D5185m		1058	789	878
Zinc	ppm	ASTM D5185m		1224	981	1048
Sulfur	ppm	ASTM D5185m		3438	2873	2783
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.7	23.6	17.1
Base Number (BN)	mg KOH/g	ASTM D2896	12	8.8	7.3	9.4
Visc @ 100°C	cSt	ASTM D445	14.4	13.5	13.7	14.2

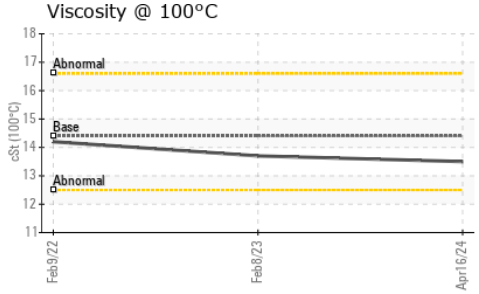
FT-IR (Direct Trend)



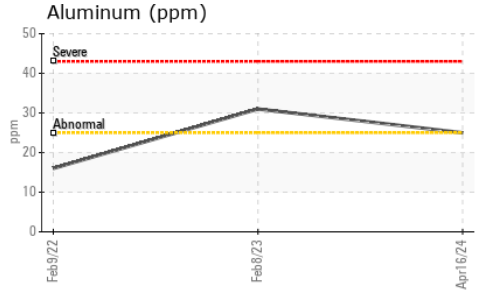
Base Number



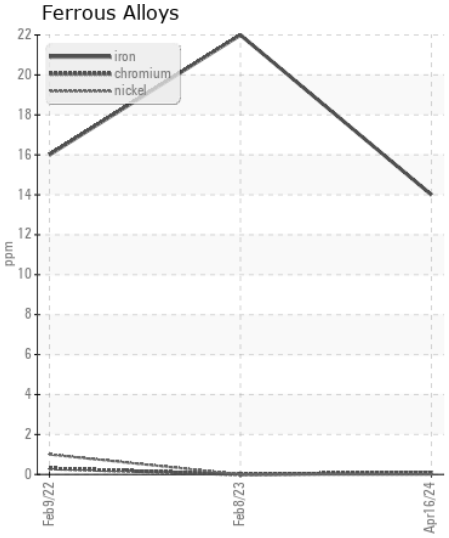
Viscosity @ 100°C



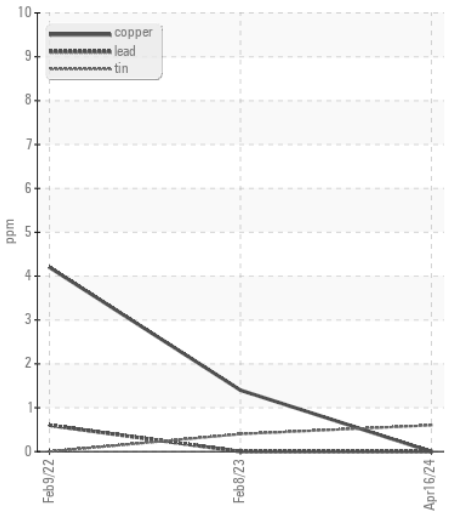
Aluminum (ppm)



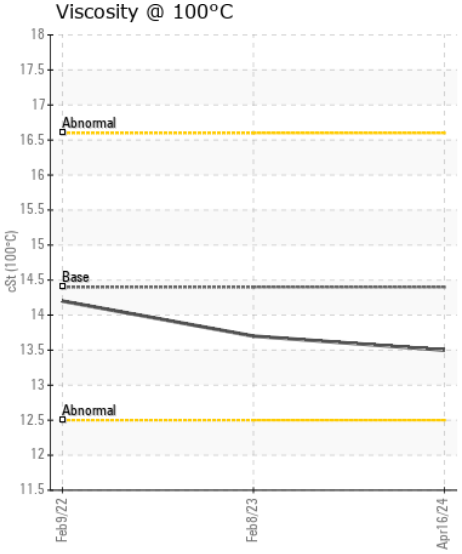
Ferrous Alloys



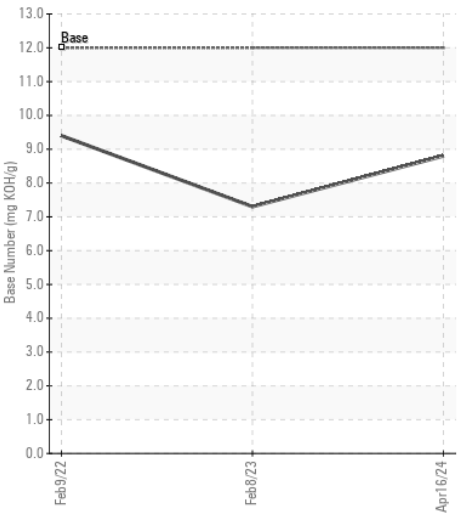
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RPL0016477
Lab Number : 06178415
Unique Number : 11029741
Test Package : FLEET

Received : 14 May 2024
Tested : 14 May 2024
Diagnosed : 14 May 2024 - Wes Davis

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)

RTL PACLEASE - 7002 - San Antonio
8810 IH-10 Frontage Road
Converse, TX
US 78109
Contact: Mike Friel
FrielM@RushEnterprises.Com
T: (210)901-7283
F: