



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION

Machine Id
PETERBILT 846-4992
Component
Diesel Engine
Fluid
MOBIL DELVAC 1300 SUPER15W40 (--- 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

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.

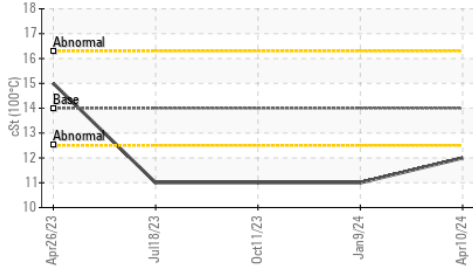
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RPL0019355	RPL0017359	RPL0015516
Sample Date		Client Info		10 Apr 2024	09 Jan 2024	11 Oct 2023
Machine Age	mls	Client Info		34682	27465	22645
Oil Age	mls	Client Info		7217	27465	22645
Filter Age	mls	Client Info		7217	27465	22645
Oil Changed		Client Info		Not Chngd	Changed	Not Chngd
Filter Changed		Client Info		Changed	Changed	Not Chngd
Sample Status				ATTENTION	ATTENTION	ABNORMAL

Iron	ppm	ASTM D5185m	>165	22	78	62
Chromium	ppm	ASTM D5185m	>5	2	5	4
Nickel	ppm	ASTM D5185m	>4	2	<1	<1
Titanium	ppm	ASTM D5185m	>2	<1	<1	0
Silver	ppm	ASTM D5185m	>2	<1	<1	0
Aluminum	ppm	ASTM D5185m	>20	17	40	27
Lead	ppm	ASTM D5185m	>150	4	11	9
Copper	ppm	ASTM D5185m	>90	10	42	34
Tin	ppm	ASTM D5185m	>5	2	4	4
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

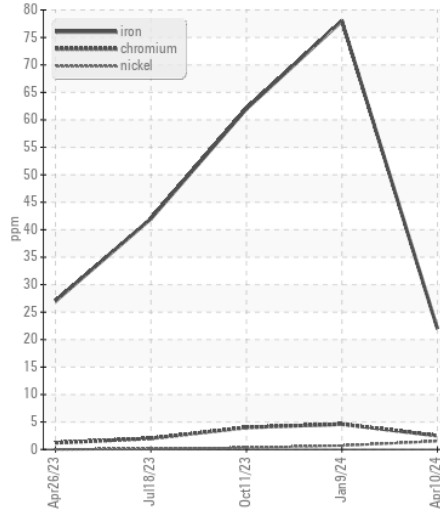
Silicon	ppm	ASTM D5185m	>35	14	▲ 50	▲ 47
Potassium	ppm	ASTM D5185m	>20	58	168	121
Fuel	%	ASTM D3524	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	0.0	NEG
Soot %	%	*ASTM D7844	>7.5	0.1	0.4	0.3
Nitration	Abs/cm	*ASTM D7624	>20	6.7	11.9	10.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.8	26.2	22.3
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		4	3	6
Boron	ppm	ASTM D5185m	0	7	25	31
Barium	ppm	ASTM D5185m	0	<1	8	3
Molybdenum	ppm	ASTM D5185m	0	76	15	14
Manganese	ppm	ASTM D5185m		2	7	6
Magnesium	ppm	ASTM D5185m	0	1240	726	727
Calcium	ppm	ASTM D5185m		1450	1274	1347
Phosphorus	ppm	ASTM D5185m		1450	728	677
Zinc	ppm	ASTM D5185m		1580	839	842
Sulfur	ppm	ASTM D5185m		4829	3067	2759
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.8	24.3	19.8
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	8.9	4.0	4.5
Visc @ 100°C	cSt	ASTM D445	14	● 12.0	● 11.0	● 11.0

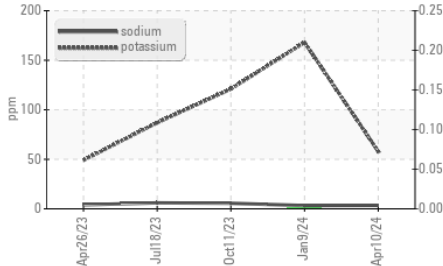
● Viscosity @ 100°C



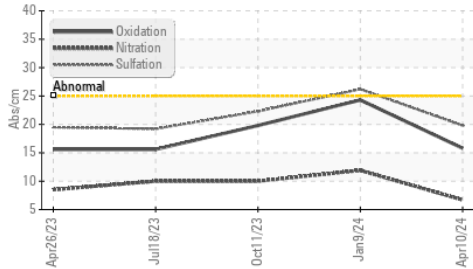
Ferrous Alloys



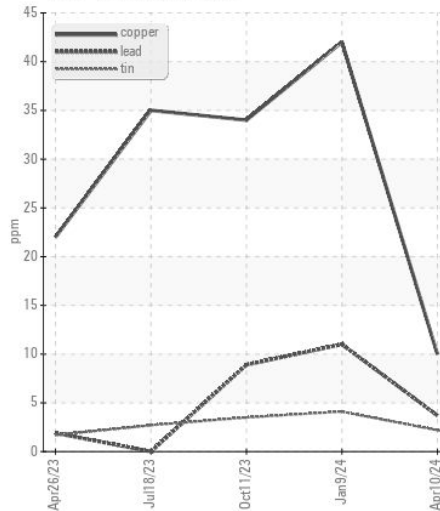
Glycol Contamination



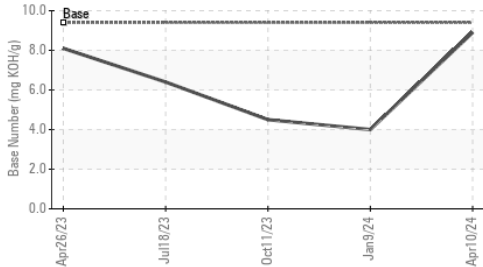
FT-IR (Direct Trend)



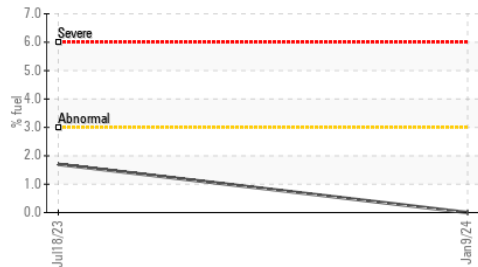
Non-ferrous Metals



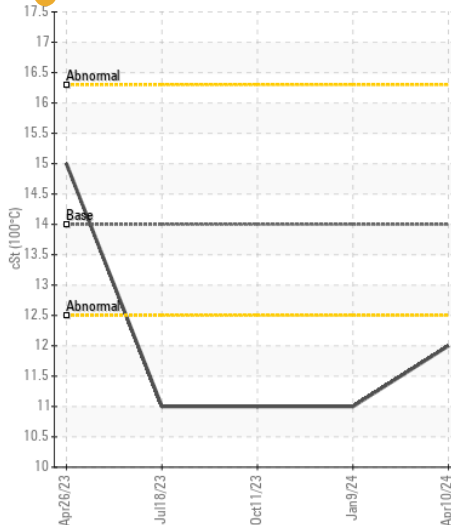
Base Number



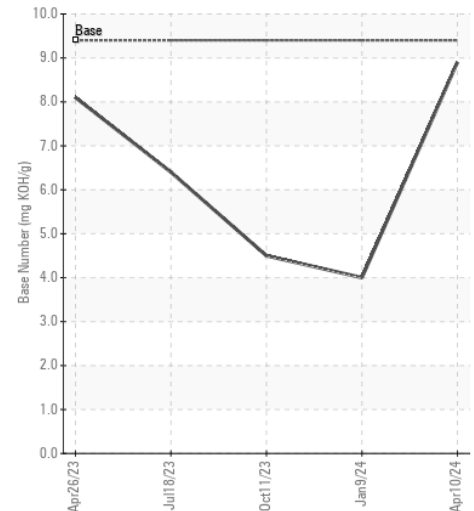
Fuel Dilution



● Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : RPL0019355

Lab Number : 06152934

Unique Number : 10983012

Test Package : FLEET (Additional Tests: FuelDilution)

Received : 18 Apr 2024

Tested : 19 Apr 2024

Diagnosed : 22 Apr 2024 - Sean Felton

RTL PACLEASE - 7006 - Pico Rivera

7837 Telegraph Rd

Pico Rivera, CA

US 90660

Contact: GERARDO CARROLA

carrolag@rushenterprises.com

T:

F:

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)