OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	MARGINAL
FLUID CONDITION	ABNORMAL

Machine Id
PETERBILT 8575055
Component
Diesel Engine
Fluid
MOBIL DELVAC 1300 SUPER 15W40 (18 QTS)

RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

WEAR

Metal levels are typical for a new component breaking in.

CONTAMINATION

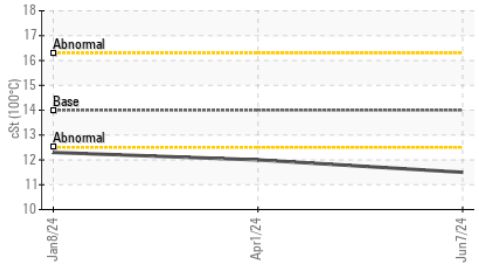
Light fuel dilution occurring.

FLUID CONDITION

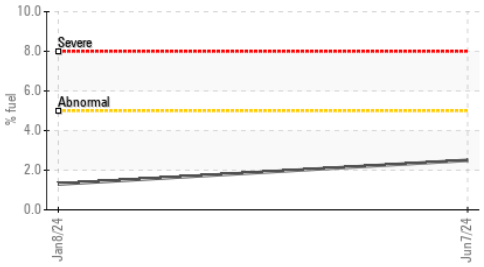
The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RPL0018003	RPL0015899	RPL0012539
Sample Date		Client Info		07 Jun 2024	01 Apr 2024	08 Jan 2024
Machine Age	mls	Client Info		33515	27976	18988
Oil Age	mls	Client Info		5600	9000	8848
Filter Age	mls	Client Info		5600	9000	8848
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>110	8	31	26
Chromium	ppm	ASTM D5185m	>4	<1	2	<1
Nickel	ppm	ASTM D5185m	>2	0	1	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	4	12	8
Lead	ppm	ASTM D5185m	>45	0	1	0
Copper	ppm	ASTM D5185m	>85	<1	6	20
Tin	ppm	ASTM D5185m	>4	0	1	0
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>30	5	13	10
Potassium	ppm	ASTM D5185m	>20	4	22	11
Fuel	%	ASTM D3524	>5	▲ 2.5	<1.0	1.3
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.2	0.3	0.3
Nitration	Abs/cm	*ASTM D7624	>20	8.6	9.4	10.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.6	20.3	19.6
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		2	3	2
Boron	ppm	ASTM D5185m	0	68	73	58
Barium	ppm	ASTM D5185m	0	0	<1	0
Molybdenum	ppm	ASTM D5185m	0	106	116	110
Manganese	ppm	ASTM D5185m		0	2	1
Magnesium	ppm	ASTM D5185m	0	645	760	655
Calcium	ppm	ASTM D5185m		1241	1983	1202
Phosphorus	ppm	ASTM D5185m		752	1044	660
Zinc	ppm	ASTM D5185m		862	1161	787
Sulfur	ppm	ASTM D5185m		3404	3537	2629
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.7	19.4	17.8
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	7.0	8.2	6.2
Visc @ 100°C	cSt	ASTM D445	14	▲ 11.5	12.0	12.3

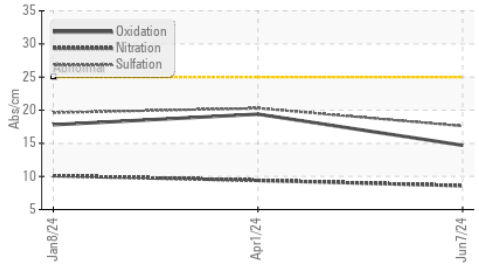
Viscosity @ 100°C



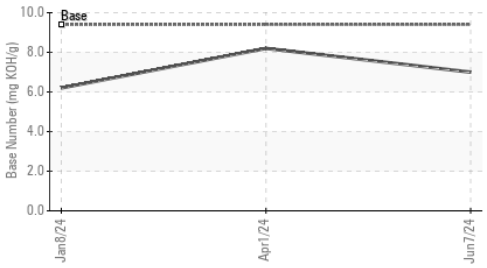
Fuel Dilution



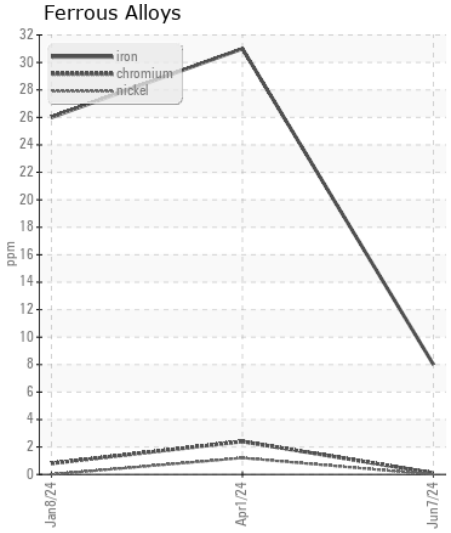
FT-IR (Direct Trend)



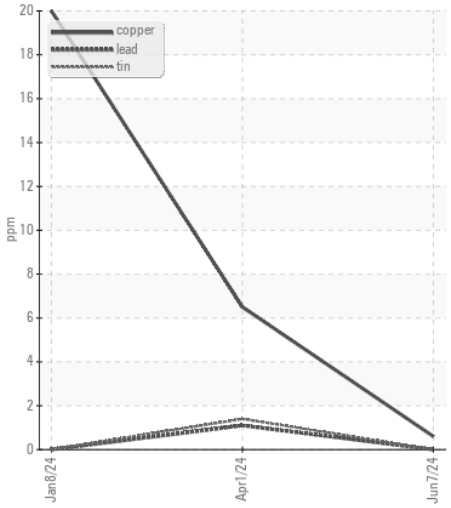
Base Number



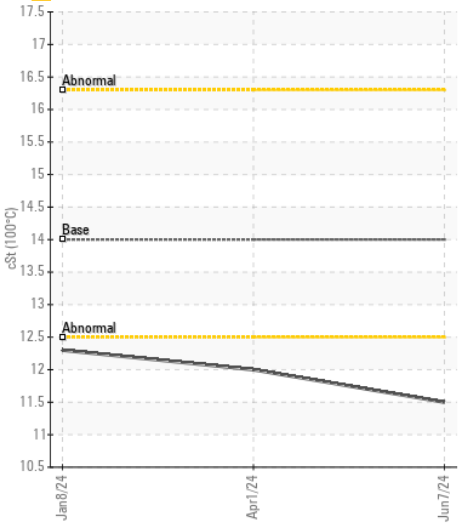
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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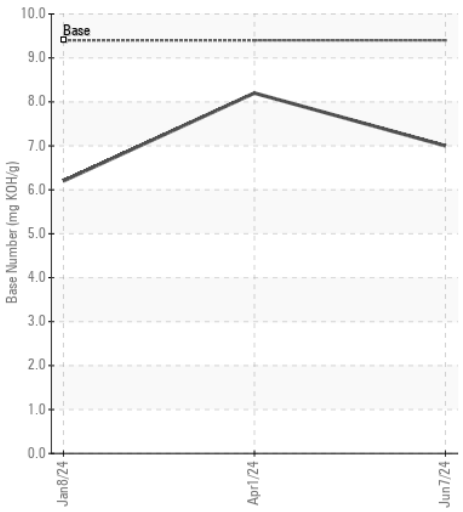

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RPL0018003 **Received** : 17 Jun 2024
Lab Number : 06211244 **Tested** : 19 Jun 2024
Unique Number : 11084108 **Diagnosed** : 19 Jun 2024 - Wes Davis
Test Package : FLEET (Additional Tests: FuelDilution, PercentFuel)

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 - 7004 - Austin
1205 Smith Road
Austin, TX
US 78721
Contact: David Johnson
JohnsonD@RushEnterprises.com
T: (512)401-7063
F: