OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	ABNORMAL

Machine Id
PETERBILT 9571536
Component
Diesel Engine
Fluid
MOBIL DELVAC 1300 SUPER15W40 (22 QTS)

RECOMMENDATION

We advise that you check for the source of the coolant leak. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

WEAR

All component wear rates are normal.

CONTAMINATION

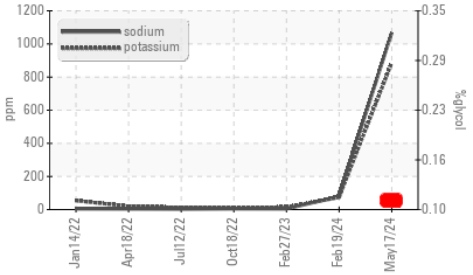
Sodium and/or potassium levels are high. There is a high concentration of glycol present in the oil.

FLUID CONDITION

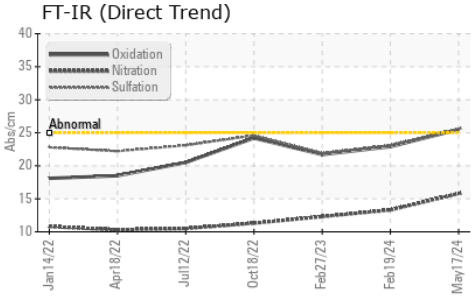
The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RPL0015924	RPL0000866	RPL0006313
Sample Date		Client Info		17 May 2024	19 Feb 2024	27 Feb 2023
Machine Age	mls	Client Info		221029	194650	158600
Oil Age	mls	Client Info		11349	15030	15564
Filter Age	mls	Client Info		11349	15030	15564
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				SEVERE	ABNORMAL	NORMAL
Iron	ppm	ASTM D5185m	>100	64	24	18
Chromium	ppm	ASTM D5185m	>20	1	<1	1
Nickel	ppm	ASTM D5185m	>4	2	0	0
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	19	13	10
Lead	ppm	ASTM D5185m	>40	2	0	<1
Copper	ppm	ASTM D5185m	>330	65	5	2
Tin	ppm	ASTM D5185m	>15	1	0	<1
Vanadium	ppm	ASTM D5185m		<1	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	20	8	7
Potassium	ppm	ASTM D5185m	>20	▲ 887	▲ 73	15
Fuel		WC Method	>5	<1.0	▲ 2.5	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	*ASTM D2982		▲ 0.12	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.7	0.7	0.5
Nitration	Abs/cm	*ASTM D7624	>20	15.8	13.3	12.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.6	23.1	21.9
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		▲ 1068	▲ 79	4
Boron	ppm	ASTM D5185m	0	31	44	42
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	180	145	85
Manganese	ppm	ASTM D5185m		5	<1	1
Magnesium	ppm	ASTM D5185m	0	539	697	612
Calcium	ppm	ASTM D5185m		1491	1310	1464
Phosphorus	ppm	ASTM D5185m		716	698	671
Zinc	ppm	ASTM D5185m		893	852	928
Sulfur	ppm	ASTM D5185m		2826	2936	3048
Oxidation	Abs/.1mm	*ASTM D7414	>25	25.5	22.9	21.7
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	10.7	5.6	7.1
Visc @ 100°C	cSt	ASTM D445	14	12.5	▲ 12.3	12.7

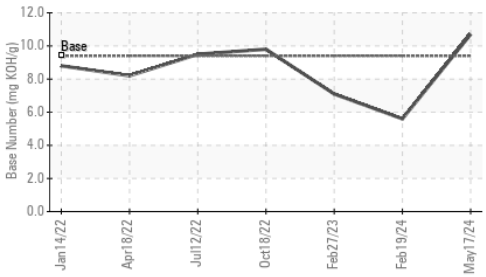
Glycol Contamination



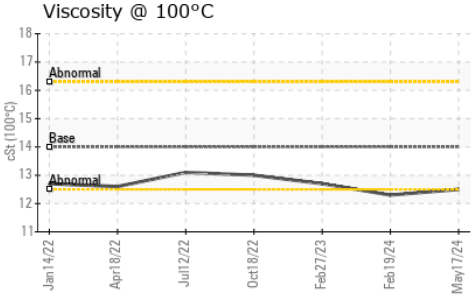
FT-IR (Direct Trend)



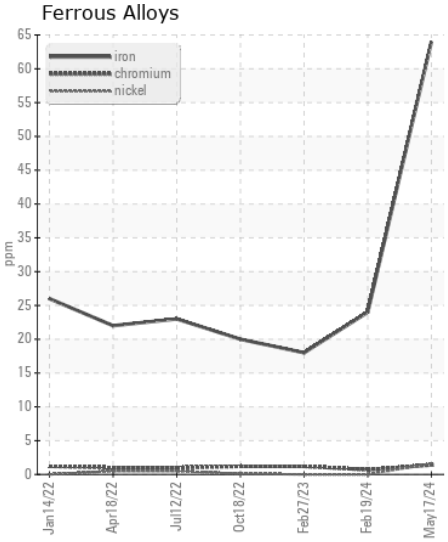
Base Number



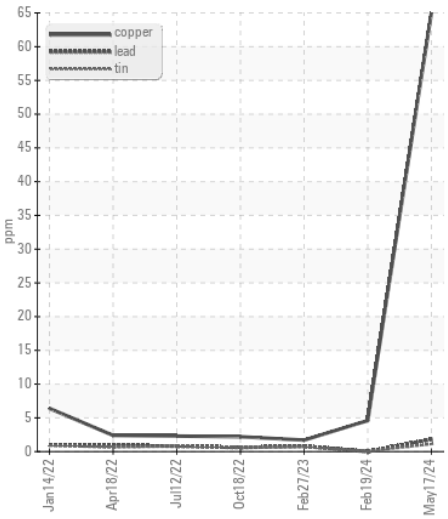
Viscosity @ 100°C



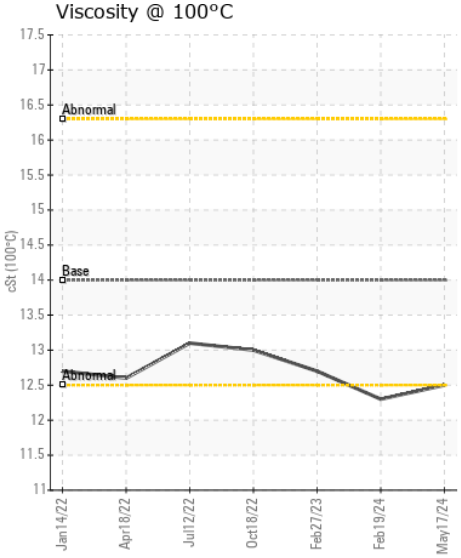
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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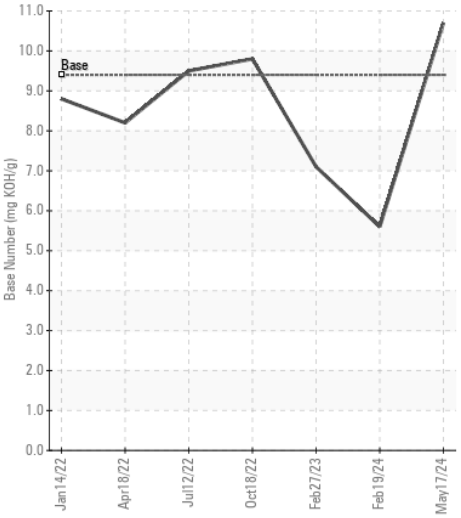

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RPL0015924
Lab Number : 06193751
Unique Number : 11050503
Test Package : FLEET (Additional Tests: Glycol)

Received : 29 May 2024
Tested : 31 May 2024
Diagnosed : 31 May 2024 - Jonathan Hester

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: