



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
PETERBILT 2008
Component
Diesel Engine
Fluid
TRC MOLY XL PRO-SPEC IV 15W40 (11 GAL)

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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR06057473	TR05440385	TR05423962
Sample Date		Client Info		30 Dec 2023	05 Jan 2022	08 Dec 2021
Machine Age	mls	Client Info		640000	618000	616353
Oil Age	mls	Client Info		20000	2000	15000
Filter Age	mls	Client Info		20000	2000	15000
Oil Changed		Client Info		Changed	Not Changed	Changed
Filter Changed		Client Info		Changed	Not Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	SEVERE

WEAR

The iron level is abnormal. All other component wear rates are normal.

Iron	ppm	ASTM D5185m	>90	▲ 109	▲ 94	● 249
Chromium	ppm	ASTM D5185m	>20	2	<1	2
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium	ppm	ASTM D5185m	>2	<1	<1	<1
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m	>20	5	6	9
Lead	ppm	ASTM D5185m	>40	7	<1	6
Copper	ppm	ASTM D5185m	>330	5	2	4
Tin	ppm	ASTM D5185m	>15	1	<1	1
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

There is no indication of any contamination in the oil.

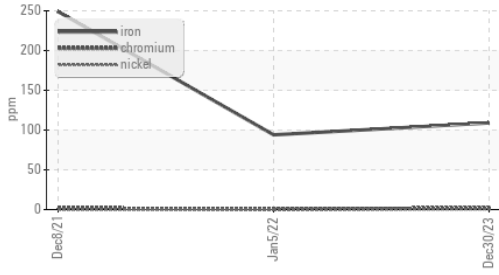
Silicon	ppm	ASTM D5185m	>25	19	12	10
Potassium	ppm	ASTM D5185m	>20	4	2	3
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>6	0.6	0.5	1.3
Nitration	Abs/cm	*ASTM D7624	>20	11.5	9.6	11.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.3	19	24.4
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

FLUID CONDITION

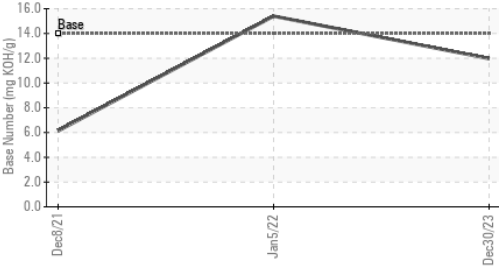
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<1	0	4
Boron	ppm	ASTM D5185m		128	6	30
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		183	111	11
Manganese	ppm	ASTM D5185m		1	<1	2
Magnesium	ppm	ASTM D5185m		355	82	643
Calcium	ppm	ASTM D5185m	1300	4122	3687	1671
Phosphorus	ppm	ASTM D5185m		870	836	744
Zinc	ppm	ASTM D5185m	1300	1048	973	837
Sulfur	ppm	ASTM D5185m		3669	3451	2701
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.3	11.4	18.8
Base Number (BN)	mg KOH/g	ASTM D2896	14	11.97	15.4	6.13
Visc @ 100°C	cSt	ASTM D445	15.5	15.5	15.6	14.7

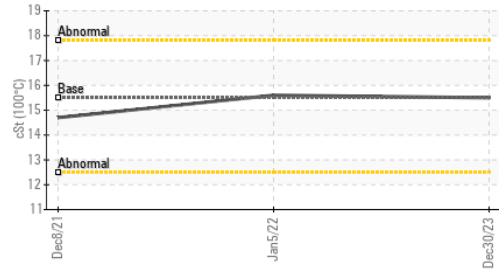
▲ Ferrous Alloys



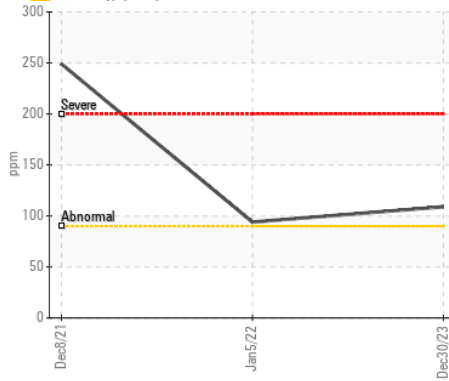
Base Number



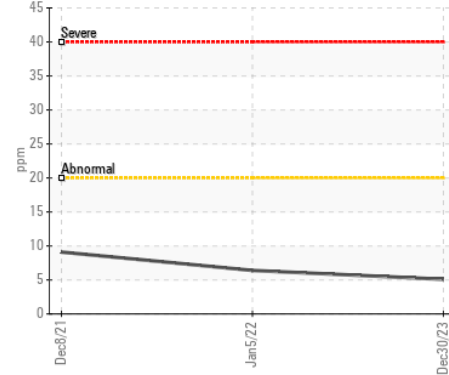
Viscosity @ 100°C



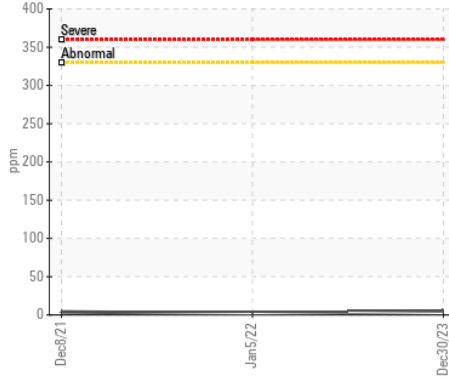
▲ Iron (ppm)



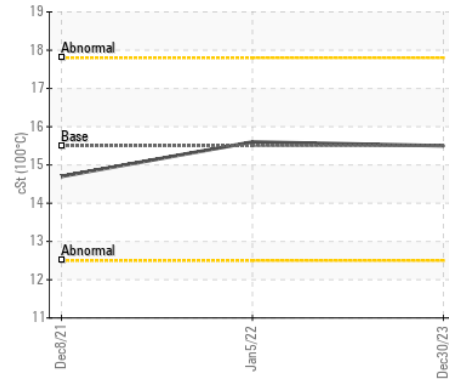
Aluminum (ppm)



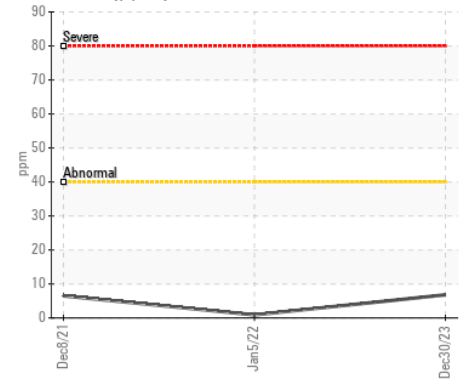
Copper (ppm)



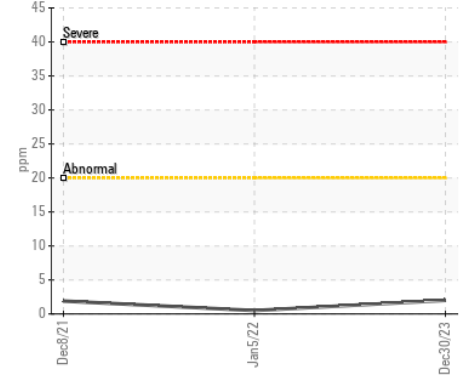
Viscosity @ 100°C



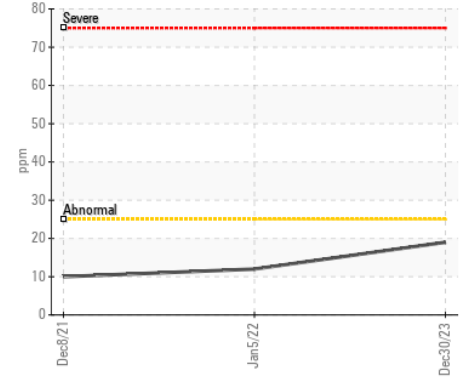
Lead (ppm)



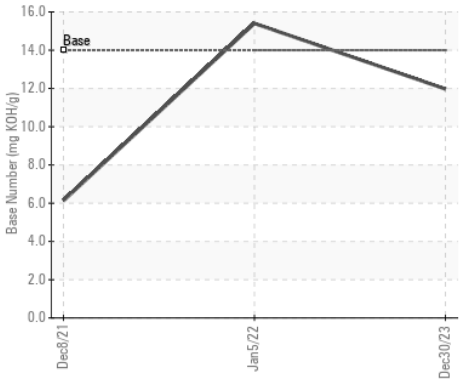
Chromium (ppm)



Silicon (ppm)



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TR06057473 **Received** : 10 Jan 2024
Lab Number : 06057473 **Diagnosed** : 12 Jan 2024
Unique Number : 10823422 **Diagnostician** : Don Baldrige
Test Package : MOB 2

RICH KLEIN
 64 PUMPKIN CREEK RD
 WAVERLY, TN
 US 37185
 Contact: RICH KLEIN
 THREERIVERSFORESTRY@YAHOO.COM

To discuss this sample report, contact Customer Service at 1-800-827-0711.

* - 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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F: