



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
PETERBILT FT-11
Component
Front Diesel Engine
Fluid
UNITED OIL DURALENE (50 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		DC0034353	DC0030776	DC0026569
Sample Date		Client Info		10 Apr 2024	03 Oct 2023	23 Feb 2023
Machine Age	mls	Client Info		1226179	1211024	1195531
Oil Age	mls	Client Info		15155	15493	15542
Filter Age	mls	Client Info		15155	15493	15542
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>90	19	22	21
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium	ppm	ASTM D5185m	>2	<1	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	2	2
Lead	ppm	ASTM D5185m	>40	3	4	2
Copper	ppm	ASTM D5185m	>330	<1	<1	<1
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

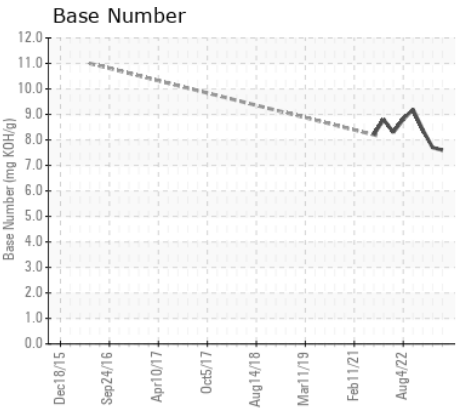
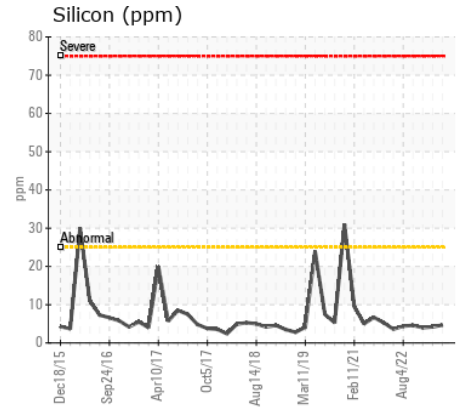
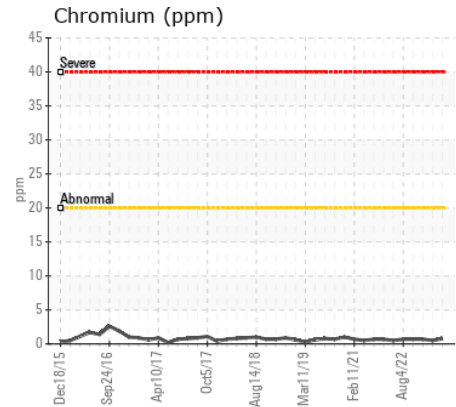
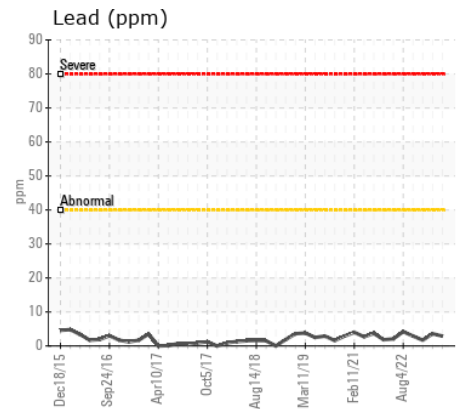
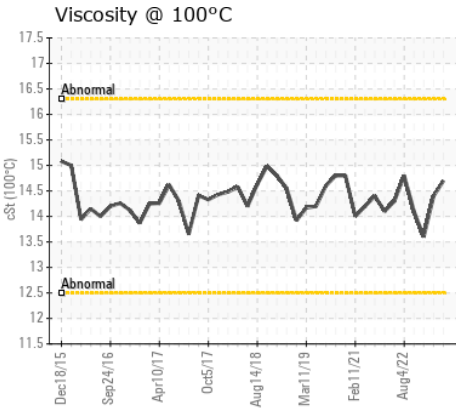
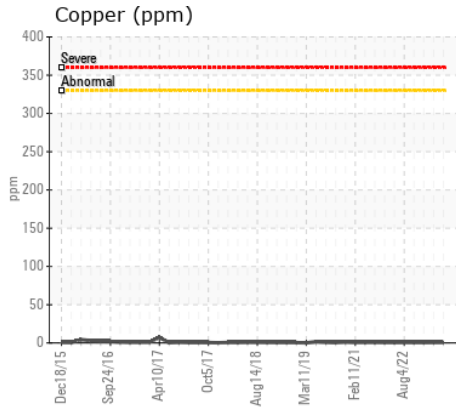
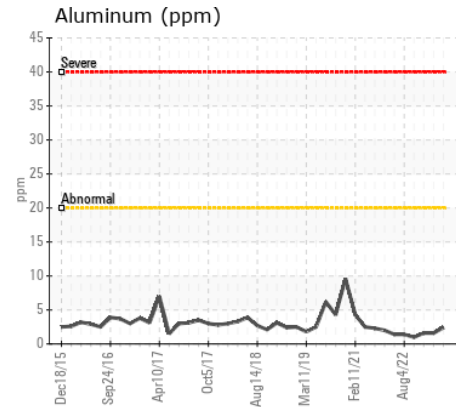
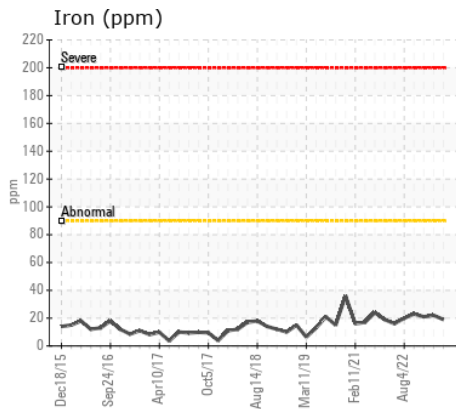
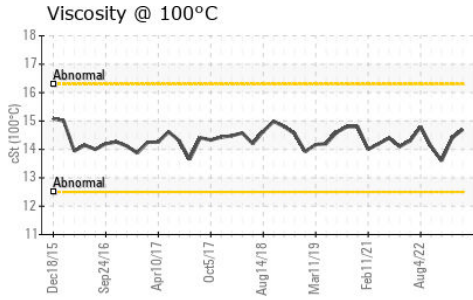
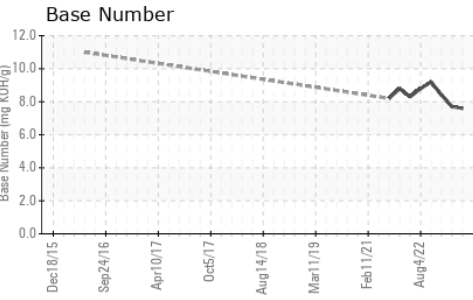
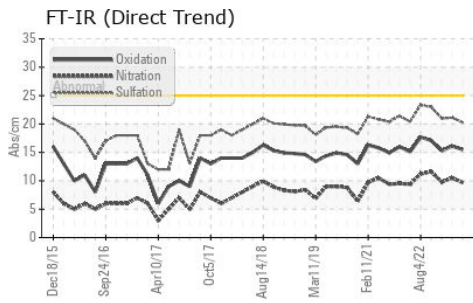
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	5	4	4
Potassium	ppm	ASTM D5185m	>20	2	2	<1
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	0.8	0.7	0.8
Nitration	Abs/cm	*ASTM D7624	>20	9.7	10.5	9.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.3	21.1	21.0
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	2	3
Boron	ppm	ASTM D5185m		2	2	4
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		63	58	58
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		1000	941	911
Calcium	ppm	ASTM D5185m		1287	1210	1197
Phosphorus	ppm	ASTM D5185m		1158	1069	1007
Zinc	ppm	ASTM D5185m		1368	1304	1261
Sulfur	ppm	ASTM D5185m		3724	3201	3782
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.5	16.1	15.3
Base Number (BN)	mg KOH/g	ASTM D2896		7.6	7.7	8.4
Visc @ 100°C	cSt	ASTM D445		14.7	14.4	13.6



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : DC0034353
Lab Number : 06148341
Unique Number : 10978419
Test Package : MOB 1 (Additional Tests: TBN)

Received : 15 Apr 2024
Tested : 15 Apr 2024
Diagnosed : 17 Apr 2024 - Sean Felton

FORRY TRANSPORT INC.
 1477 CARLISLE PIKE
 HANOVER, PA
 US 17331

Contact: WILLIE FORRY
 willie@forrytrans.com

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)

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