



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	ABNORMAL

Machine Id
PETERBILT 8464380

Component
Diesel Engine

Fluid
DIESEL ENGINE OIL 10W40 (--- GAL)

RECOMMENDATION

We advise that you check the fuel injection system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

WEAR

All component wear rates are normal.

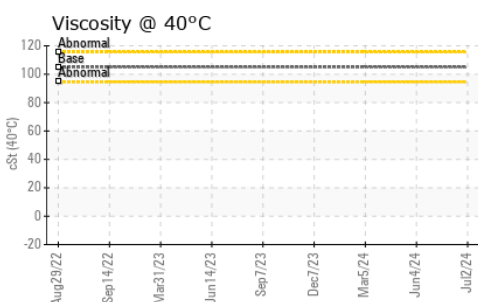
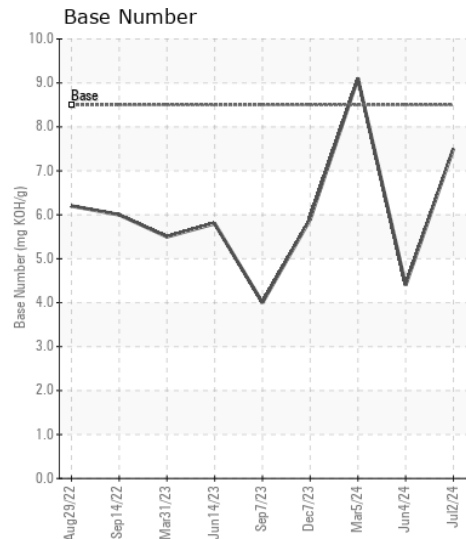
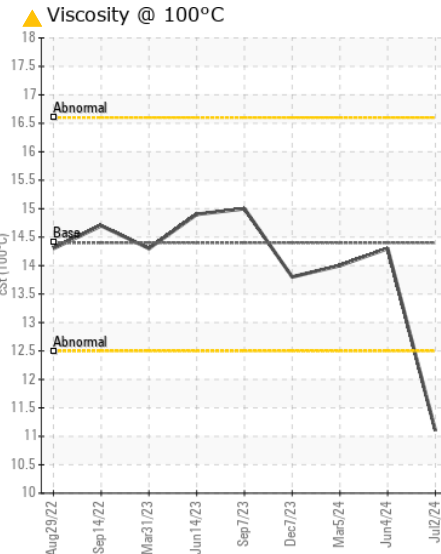
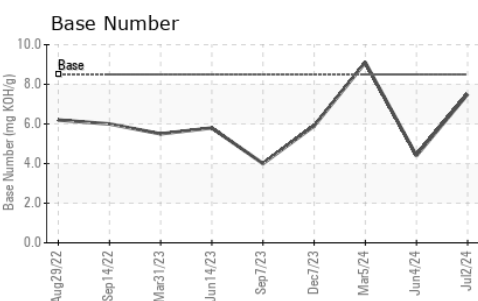
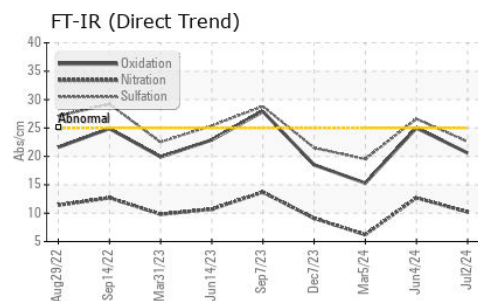
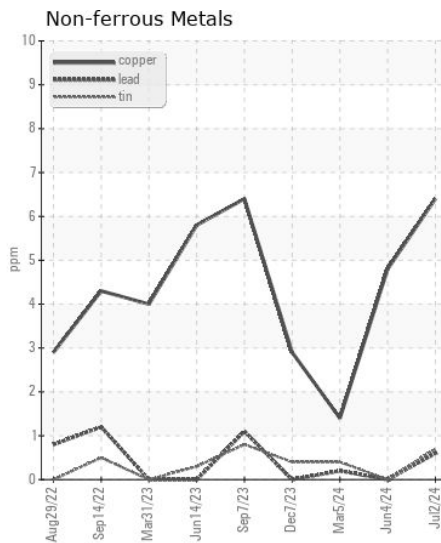
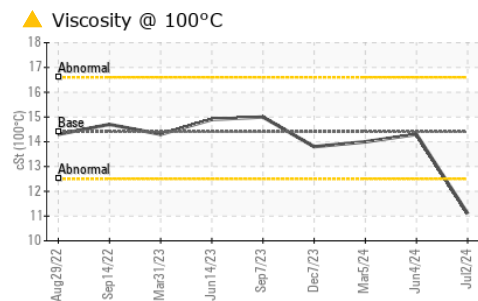
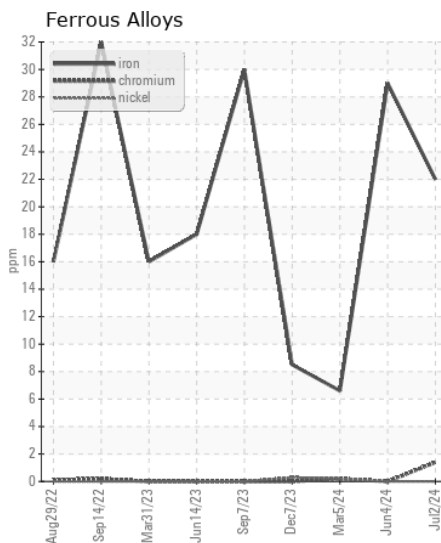
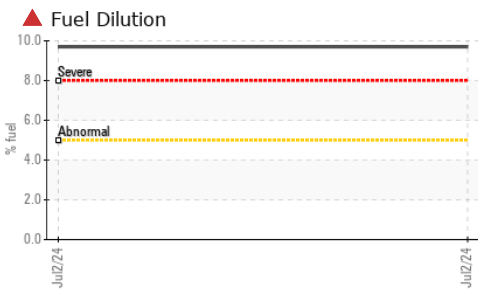
CONTAMINATION

There is a high amount of fuel present in the oil.

FLUID CONDITION

Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RPL0022002	RPL0021021	RPL0019253
Sample Date		Client Info		02 Jul 2024	04 Jun 2024	05 Mar 2024
Machine Age	mls	Client Info		194830	281758	267544
Oil Age	mls	Client Info		0	0	24580
Filter Age	mls	Client Info		13414	0	24580
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Changed	Changed	Not Changd
Sample Status				SEVERE	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>110	22	29	7
Chromium	ppm	ASTM D5185m	>4	1	0	<1
Nickel	ppm	ASTM D5185m	>2	0	0	<1
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>25	6	6	3
Lead	ppm	ASTM D5185m	>45	<1	0	<1
Copper	ppm	ASTM D5185m	>85	6	5	1
Tin	ppm	ASTM D5185m	>4	<1	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>30	7	8	8
Potassium	ppm	ASTM D5185m	>20	13	5	2
Fuel	%	ASTM D3524	>5	▲ 9.7	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.6	0.7	0.2
Nitration	Abs/cm	*ASTM D7624	>20	10.2	12.7	6.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.6	26.6	19.5
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		5	3	1
Boron	ppm	ASTM D5185m	250	53	1	3
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	58	67	60
Manganese	ppm	ASTM D5185m		2	<1	0
Magnesium	ppm	ASTM D5185m	450	515	1127	944
Calcium	ppm	ASTM D5185m	3000	1455	1302	1072
Phosphorus	ppm	ASTM D5185m	1150	694	1137	991
Zinc	ppm	ASTM D5185m	1350	825	1458	1222
Sulfur	ppm	ASTM D5185m	4250	2745	3390	3183
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.6	25.0	15.3
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	7.5	4.4	9.1
Visc @ 100°C	cSt	ASTM D445	14.4	▲ 11.1	14.3	14.0



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RPL0022002 **Received** : 17 Jul 2024
Lab Number : 06238842 **Tested** : 18 Jul 2024
Unique Number : 11127676 **Diagnosed** : 18 Jul 2024 - Sean Felton
Test Package : FLEET (Additional Tests: FuelDilution, KV40, 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)

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