



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	MARGINAL
FLUID CONDITION	ABNORMAL

Machine Id
PETERBILT 846-4767 BFC
 Component
Diesel Engine
 Fluid
CHEVRON DELO 400 LE 15W40 (44 QTS)

RECOMMENDATION

No corrective action is recommended at this time. Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. The fluid was specified as CHEVRON DELO 400 LE 15W40, however, a fluid match indicates that this fluid is SAE 30 Diesel Engine Oil. Please confirm the oil type and grade on your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RPL0013548	RPL0012306	RPL0007395
Sample Date		Client Info		13 Nov 2023	26 May 2023	23 Nov 2022
Machine Age	mls	Client Info		70815	61593	50695
Oil Age	mls	Client Info		3017	10898	25771
Filter Age	mls	Client Info		0	10898	25771
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Filter Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				ABNORMAL	ABNORMAL	NORMAL

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185m	>165	24	14	11
Chromium	ppm	ASTM D5185m	>5	1	1	<1
Nickel	ppm	ASTM D5185m	>4	0	<1	0
Titanium	ppm	ASTM D5185m	>2	0	<1	0
Silver	ppm	ASTM D5185m	>2	<1	<1	0
Aluminum	ppm	ASTM D5185m	>20	7	5	2
Lead	ppm	ASTM D5185m	>150	2	3	<1
Copper	ppm	ASTM D5185m	>90	4	2	1
Tin	ppm	ASTM D5185m	>5	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

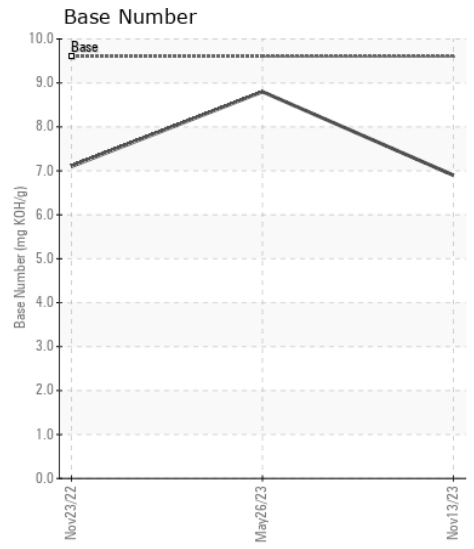
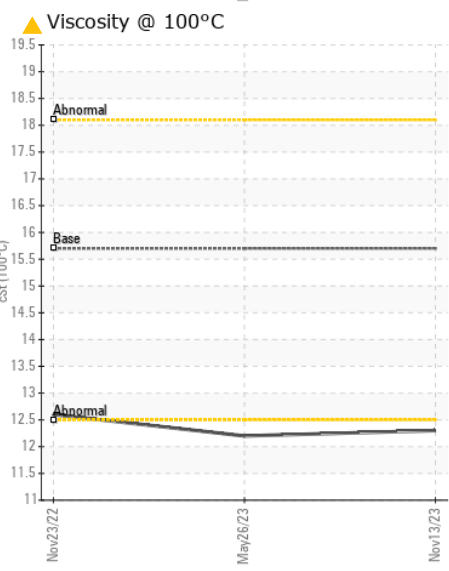
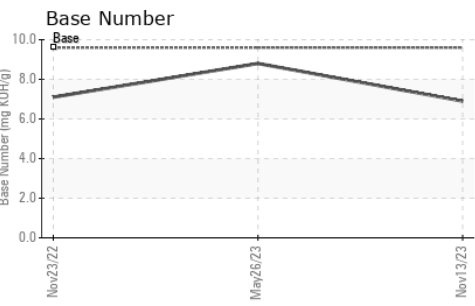
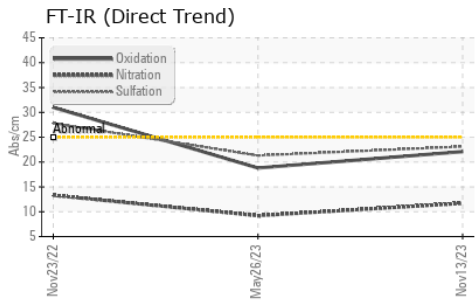
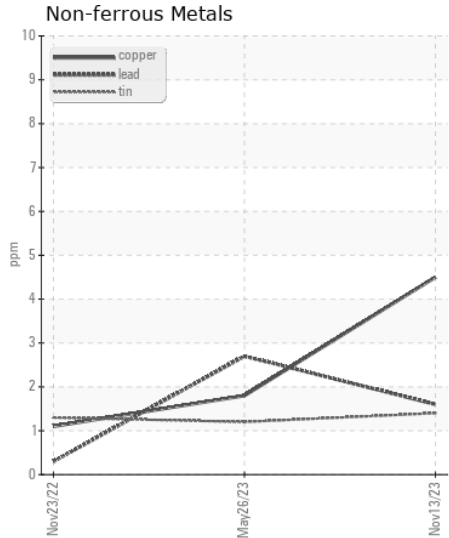
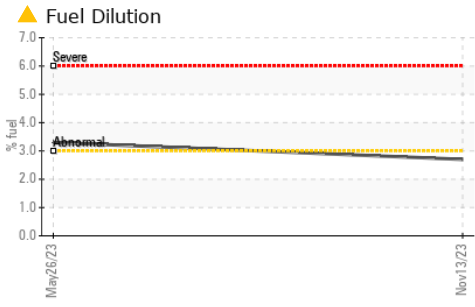
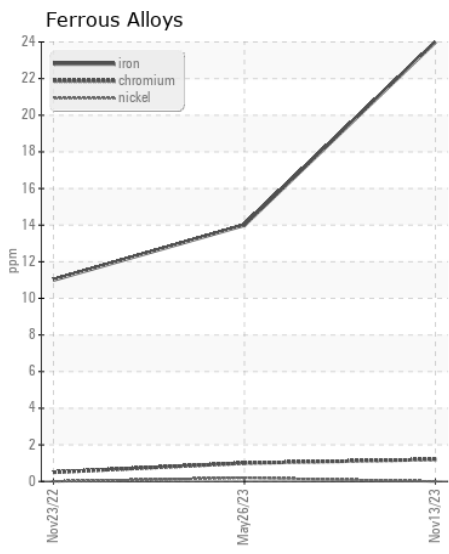
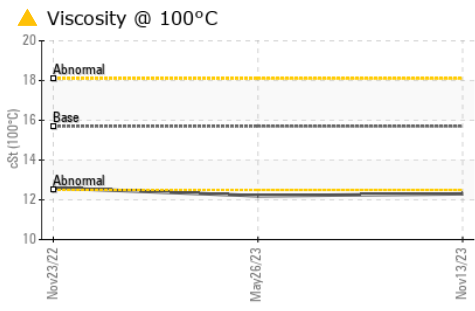
Light fuel dilution occurring. No other contaminants were detected in the oil.

Silicon	ppm	ASTM D5185m	>35	7	5	6
Potassium	ppm	ASTM D5185m	>20	22	14	<1
Fuel	%	ASTM D3524	>3.0	▲ 2.7	▲ 3.3	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>7.5	0.5	0.3	0.6
Nitration	Abs/cm	*ASTM D7624	>20	11.7	9.2	13.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.1	21.3	27.8
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. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		3	1	2
Boron	ppm	ASTM D5185m		● 12	10	39
Barium	ppm	ASTM D5185m		2	0	1
Molybdenum	ppm	ASTM D5185m		56	52	40
Manganese	ppm	ASTM D5185m		2	<1	<1
Magnesium	ppm	ASTM D5185m		● 894	887	479
Calcium	ppm	ASTM D5185m		1213	1190	1750
Phosphorus	ppm	ASTM D5185m	1200	989	931	913
Zinc	ppm	ASTM D5185m	1300	1173	1208	1104
Sulfur	ppm	ASTM D5185m	3200	3172	3422	3528
Oxidation	Abs/.1mm	*ASTM D7414	>25	22.1	18.8	31.0
Base Number (BN)	mg KOH/g	ASTM D2896	9.6	6.9	8.8	7.1
Visc @ 100°C	cSt	ASTM D445	15.7	▲ 12.3	▲ 12.2	12.6



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RPL0013548 **Received** : 22 Apr 2024
Lab Number : 06155674 **Tested** : 25 Apr 2024
Unique Number : 10991097 **Diagnosed** : 25 Apr 2024 - Wes Davis
Test Package : FLEET (Additional Tests: PercentFuel)

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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)