



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	MARGINAL
FLUID CONDITION	NORMAL

Area
(LD718229)
Machine Id
PETERBILT 846-4575
Component
Diesel Engine
Fluid
MOBIL DELVAC ELITE 15W40 (48 QTS)

RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RPL0021903	RPL0019389	RPL0017365
Sample Date		Client Info		28 Jun 2024	28 Mar 2024	10 Jan 2024
Machine Age	mls	Client Info		41465	38051	36739
Oil Age	mls	Client Info		29021	4717	4304
Filter Age	mls	Client Info		0	4717	4304
Oil Changed		Client Info		Changed	Filtered	Not Changd
Filter Changed		Client Info		Changed	Changed	Not Changd
Sample Status				MARGINAL	NORMAL	NORMAL

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185m	>165	47	33	16
Chromium	ppm	ASTM D5185m	>5	2	2	<1
Nickel	ppm	ASTM D5185m	>4	<1	<1	0
Titanium	ppm	ASTM D5185m	>2	0	<1	<1
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	17	11	3
Lead	ppm	ASTM D5185m	>150	2	2	1
Copper	ppm	ASTM D5185m	>90	1	1	1
Tin	ppm	ASTM D5185m	>5	1	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

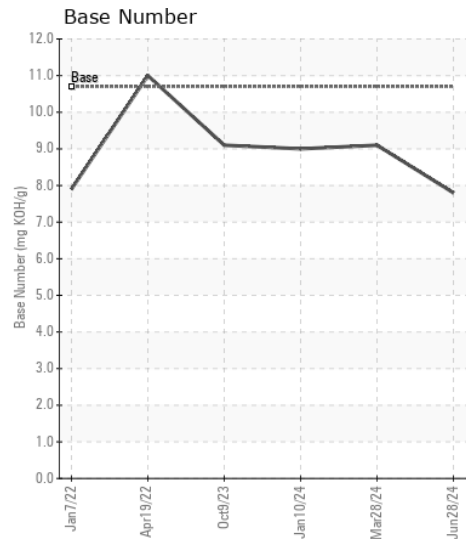
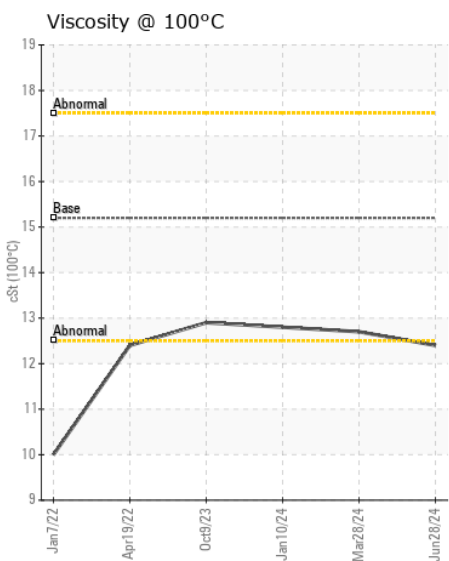
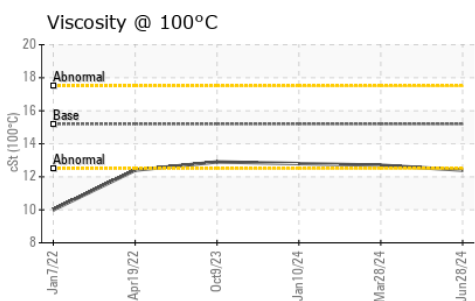
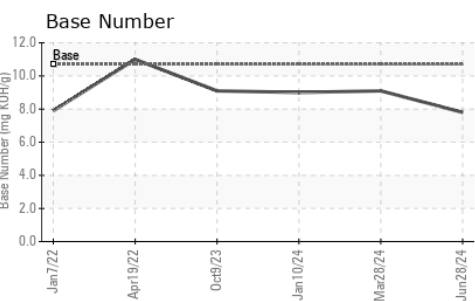
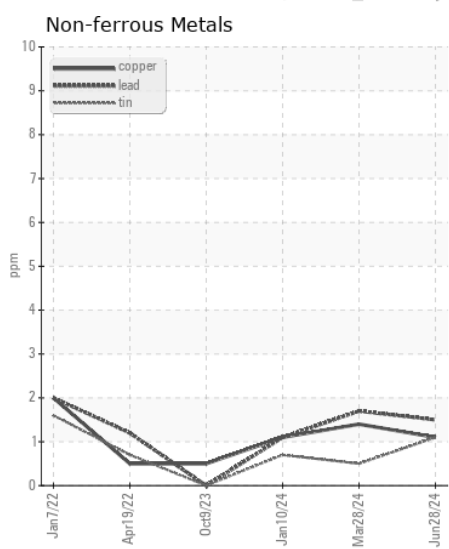
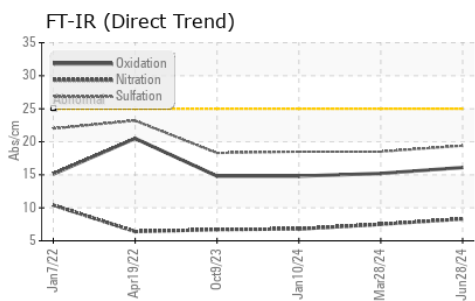
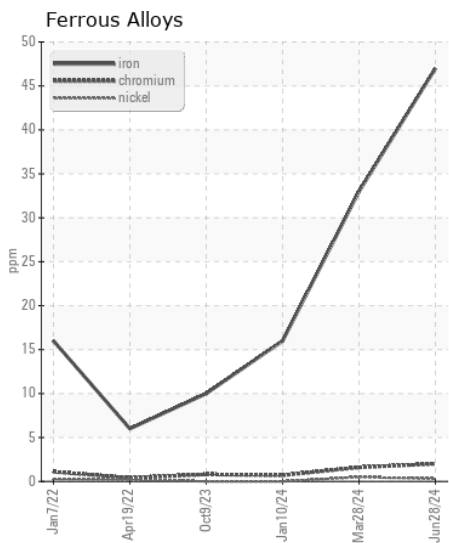
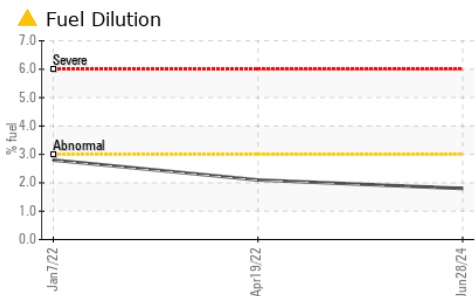
Light fuel dilution occurring. No other contaminants were detected in the oil.

Silicon	ppm	ASTM D5185m	>35	6	5	4
Potassium	ppm	ASTM D5185m	>20	53	34	9
Fuel	%	ASTM D3524	>3.0	▲ 1.8	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>7.5	0.2	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	8.3	7.5	6.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.4	18.5	18.5
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

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		2	2	0
Boron	ppm	ASTM D5185m		11	8	10
Barium	ppm	ASTM D5185m		0	0	3
Molybdenum	ppm	ASTM D5185m		56	56	55
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		920	953	868
Calcium	ppm	ASTM D5185m		1123	1155	1057
Phosphorus	ppm	ASTM D5185m		1073	1038	935
Zinc	ppm	ASTM D5185m		1272	1243	1151
Sulfur	ppm	ASTM D5185m		3763	3689	3272
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.1	15.2	14.8
Base Number (BN)	mg KOH/g	ASTM D2896	10.7	7.8	9.1	9.0
Visc @ 100°C	cSt	ASTM D445	15.2	12.4	12.7	12.8



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RPL0021903
Lab Number : 06234484
Unique Number : 11123318
Test Package : FLEET (Additional Tests: FuelDilution, PercentFuel)

RTL PACLEASE - 7006 - Pico Rivera
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 Pico Rivera, CA
 US 90660
 Contact: GERARDO CARROLA
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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)

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