



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	ABNORMAL

Machine Id
PETERBILT 846-4303
 Component
Diesel Engine
 Fluid
MOBIL DELVAC 1300 SUPER15W40 (48 QTS)

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.

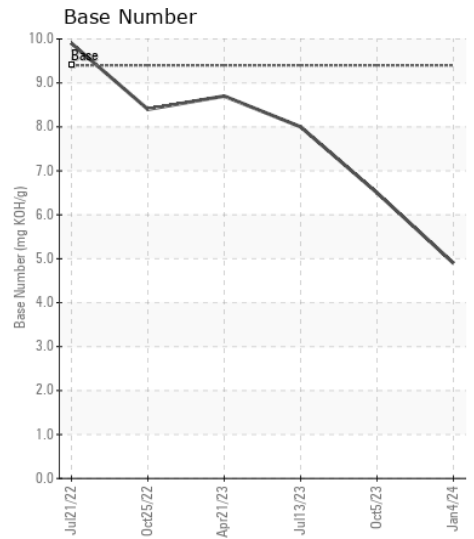
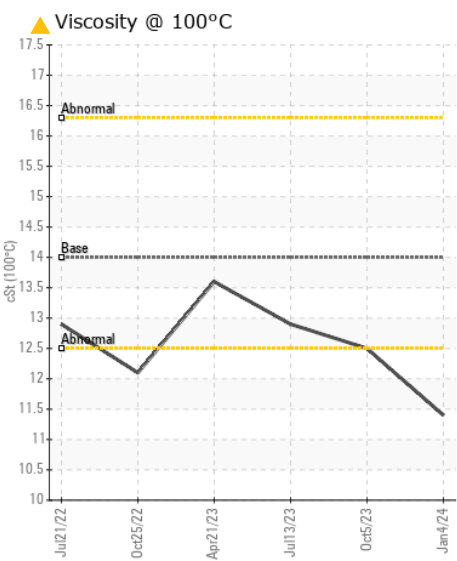
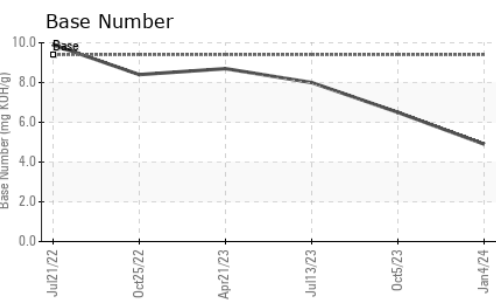
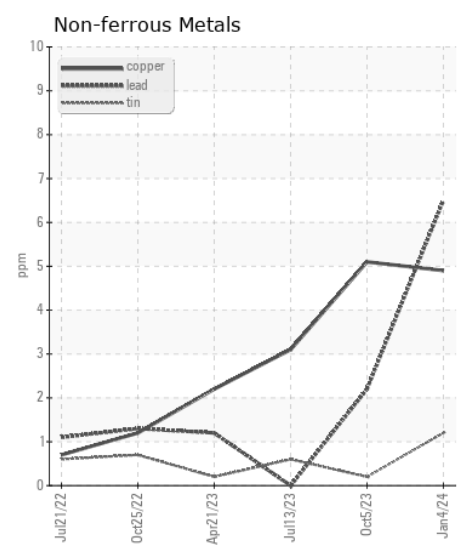
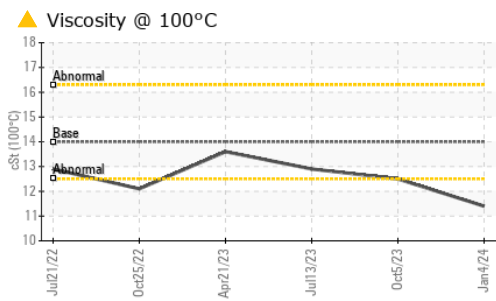
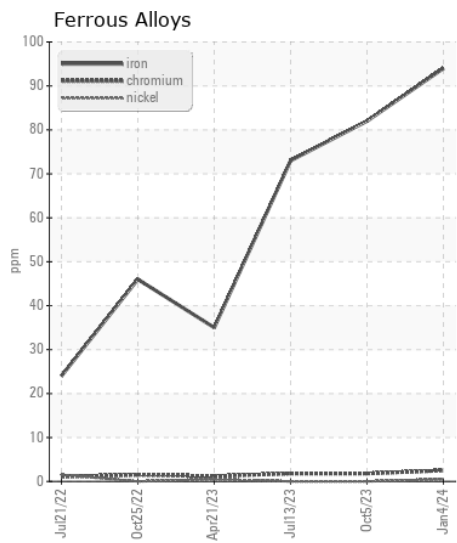
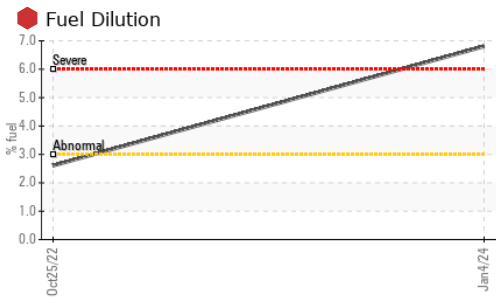
CONTAMINATION

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

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RPL0017412	RPL0015532	RPL0013409
Sample Date		Client Info		04 Jan 2024	05 Oct 2023	13 Jul 2023
Machine Age	mls	Client Info		127996	126210	123245
Oil Age	mls	Client Info		10990	19204	0
Filter Age	mls	Client Info		10990	19204	0
Oil Changed		Client Info		Not Changd	Not Changd	N/A
Filter Changed		Client Info		Not Changd	Not Changd	N/A
Sample Status				SEVERE	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>165	94	82	73
Chromium	ppm	ASTM D5185m	>5	2	2	2
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m	>2	0	0	<1
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	10	8	8
Lead	ppm	ASTM D5185m	>150	6	2	0
Copper	ppm	ASTM D5185m	>90	5	5	3
Tin	ppm	ASTM D5185m	>5	1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>35	5	5	4
Potassium	ppm	ASTM D5185m	>20	21	18	21
Fuel	%	ASTM D3524	>3.0	6.8	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>7.5	0.4	0.3	0.2
Nitration	Abs/cm	*ASTM D7624	>20	10.0	9.2	8.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.6	22.1	19.1
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		0	2	2
Boron	ppm	ASTM D5185m	0	2	3	3
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	55	53	58
Manganese	ppm	ASTM D5185m		2	<1	1
Magnesium	ppm	ASTM D5185m	0	909	759	915
Calcium	ppm	ASTM D5185m		1019	979	1121
Phosphorus	ppm	ASTM D5185m		920	797	963
Zinc	ppm	ASTM D5185m		1181	980	1176
Sulfur	ppm	ASTM D5185m		2726	2325	3380
Oxidation	Abs/.1mm	*ASTM D7414	>25	24.7	21.2	16.5
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	4.9	6.5	8.0
Visc @ 100°C	cSt	ASTM D445	14	11.4	12.5	12.9



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RPL0017412 **Received** : 11 Jan 2024
Lab Number : 06057822 **Diagnosed** : 15 Jan 2024
Unique Number : 10829204 **Diagnostician** : Wes Davis
Test Package : FLEET (Additional Tests: FuelDilution, PercentFuel)

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 T:
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Certificate L2367
 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)