



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL

Machine Id
PETERBILT 2361
Component
Diesel Engine
Fluid
MOBIL DELVAC 1300 SUPER15W40 (12 GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0450971	WC0450970	WC0450968
Sample Date		Client Info		22 May 2024	21 Mar 2024	01 Aug 2023
Machine Age	mls	Client Info		0	0	1536418
Oil Age	mls	Client Info		7900	48000	48000
Filter Age	mls	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Changed	Changed
Filter Changed		Client Info		Not Changd	N/A	N/A
Sample Status				ATTENTION	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>165	4	10	13
Chromium	ppm	ASTM D5185m	>5	<1	0	1
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m	>2	<1	0	0
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	<1	<1	2
Lead	ppm	ASTM D5185m	>150	1	2	5
Copper	ppm	ASTM D5185m	>90	1	1	2
Tin	ppm	ASTM D5185m	>5	<1	0	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

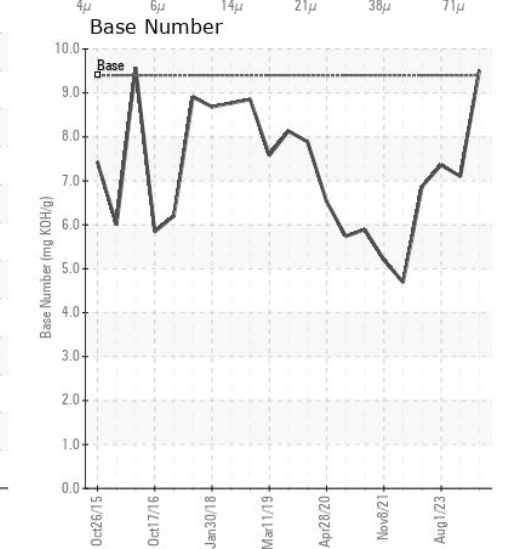
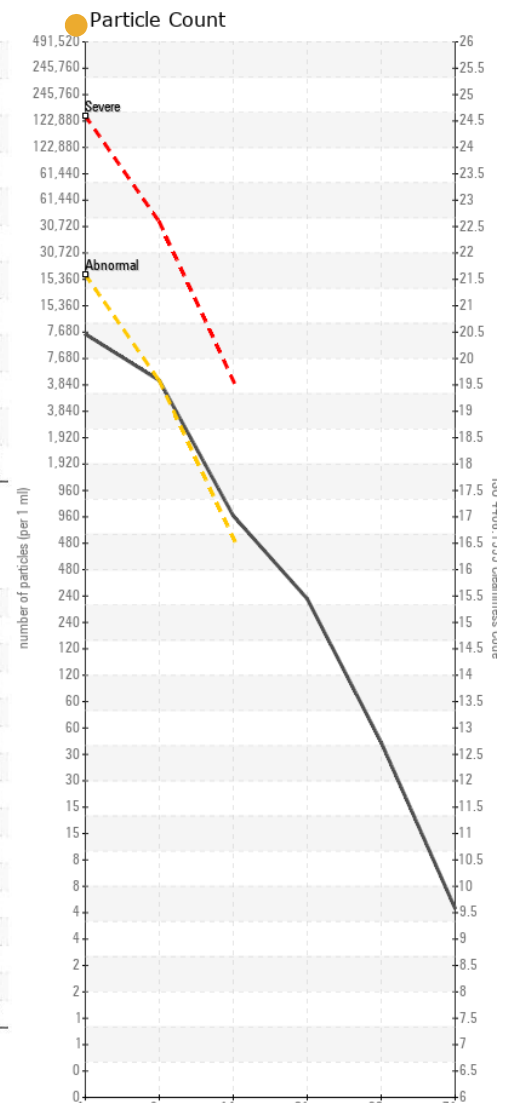
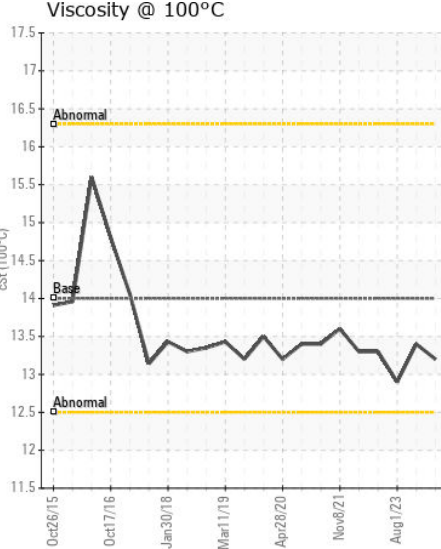
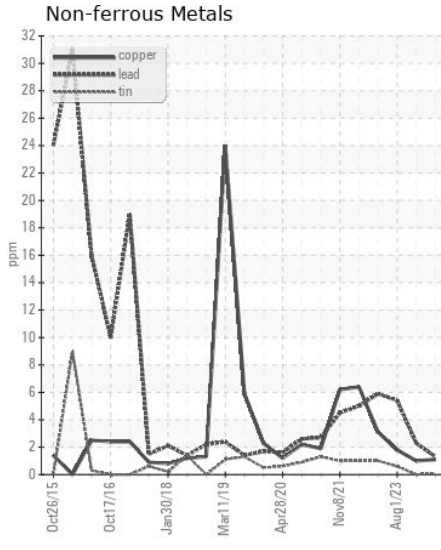
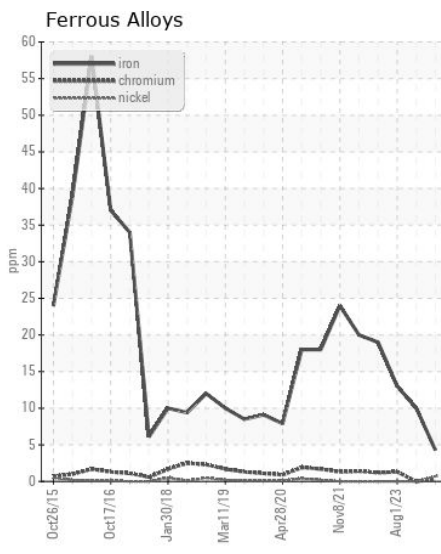
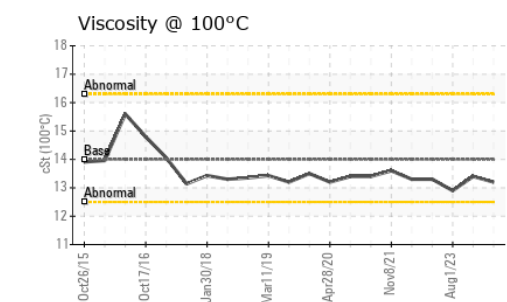
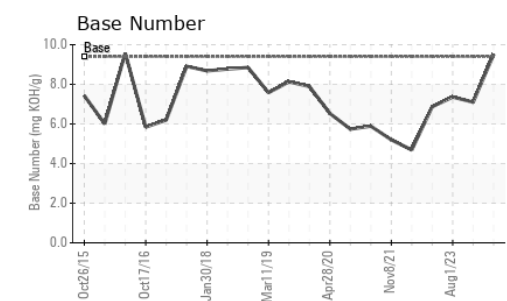
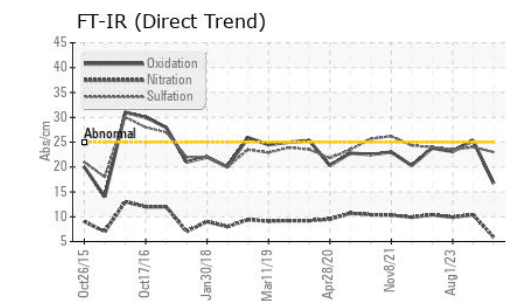
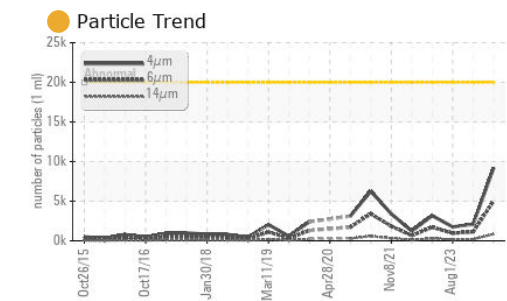
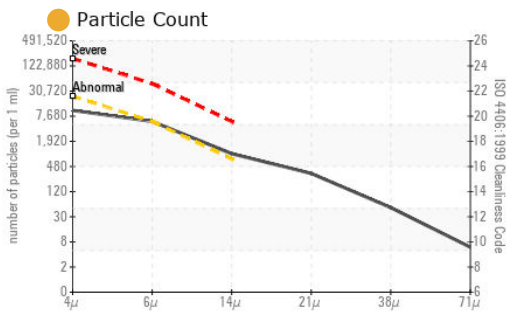
There is a light amount of particulates present in the oil. Test for glycol is negative. Silicon noted as additive.

Silicon	ppm	ASTM D5185m	>35	534	3	4
Potassium	ppm	ASTM D5185m	>20	2	<1	2
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	>7.5	0.1	0.2	0.2
Nitration	Abs/cm	*ASTM D7624	>20	5.9	10.4	9.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.0	24.0	23.5
Particles >4µm		ASTM D7647	>20000	9212	2088	1757
Particles >6µm		ASTM D7647	>5000	5018	1137	957
Particles >14µm		ASTM D7647	>640	854	194	163
Particles >21µm		ASTM D7647	>160	288	65	55
Particles >38µm		ASTM D7647	>40	44	10	8
Particles >71µm		ASTM D7647	>10	5	1	1
Oil Cleanliness		ISO 4406 (c)	>21/19/16	20/20/17	18/17/15	18/17/15
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		0	2	4
Boron	ppm	ASTM D5185m	0	9	23	8
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	52	47	53
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m	0	729	572	813
Calcium	ppm	ASTM D5185m		1103	1597	1200
Phosphorus	ppm	ASTM D5185m		829	959	874
Zinc	ppm	ASTM D5185m		992	1118	1125
Sulfur	ppm	ASTM D5185m		3491	4734	4134
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.7	25.3	23.1
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	9.51	7.10	7.36
Visc @ 100°C	cSt	ASTM D445	14	13.2	13.4	12.9



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0450971 **Received** : 28 May 2024
Lab Number : 06192991 **Tested** : 31 May 2024
Unique Number : 11049743 **Diagnosed** : 31 May 2024 - Doug Bogart
Test Package : MOB 2 (Additional Tests: PrtCount)
 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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