



WEAR **NORMAL**

CONTAMINATION **NORMAL**

FLUID CONDITION **NORMAL**

OIL ANALYSIS REPORT

Area
[44208537]

Machine Id
PETERBILT 957-1658 Speed Industrial

Component
Diesel Engine

Fluid
MOBIL DELVAC MX 15W40 (23 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RPL0016475	RPL0012184	RPL0006720
Sample Date		Client Info		15 Apr 2024	13 Jun 2023	19 Feb 2023
Machine Age	mls	Client Info		104673	72556	50136
Oil Age	mls	Client Info		11245	22420	15582
Filter Age	mls	Client Info		11245	22420	15582
Oil Changed		Client Info		Not Changd	Changed	Changed
Filter Changed		Client Info		Not Changd	Changed	Changed
Sample Status				NORMAL	NORMAL	ATTENTION

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	9	20	25
Chromium	ppm	ASTM D5185m	>20	<1	<1	1
Nickel	ppm	ASTM D5185m	>4	0	<1	<1
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	11	18	22
Lead	ppm	ASTM D5185m	>40	0	0	1
Copper	ppm	ASTM D5185m	>330	0	1	<1
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

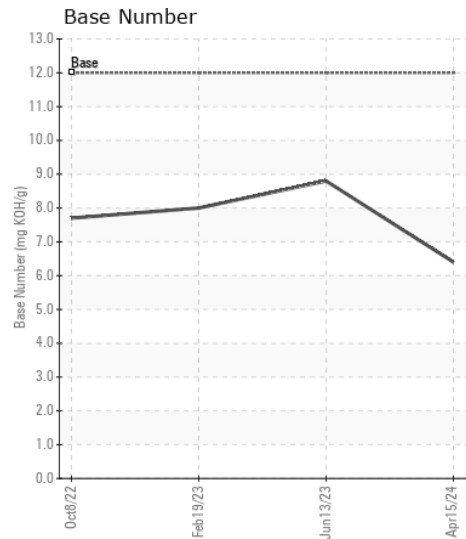
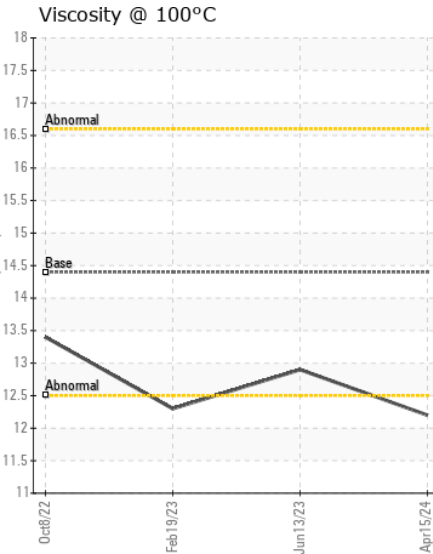
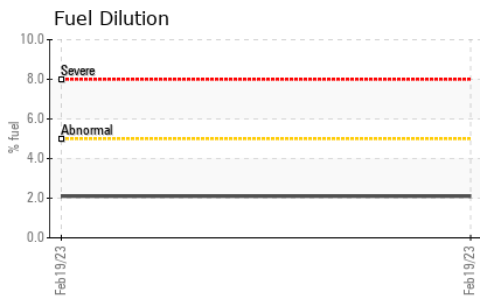
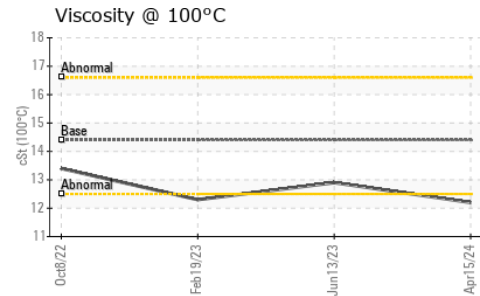
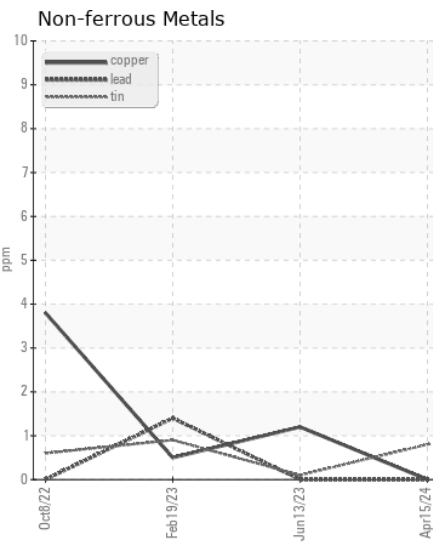
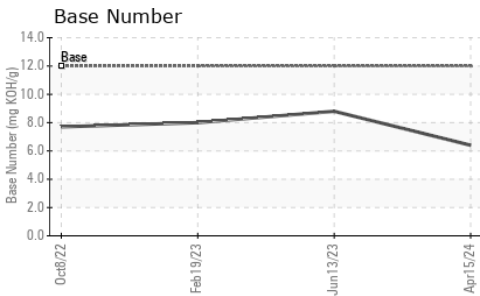
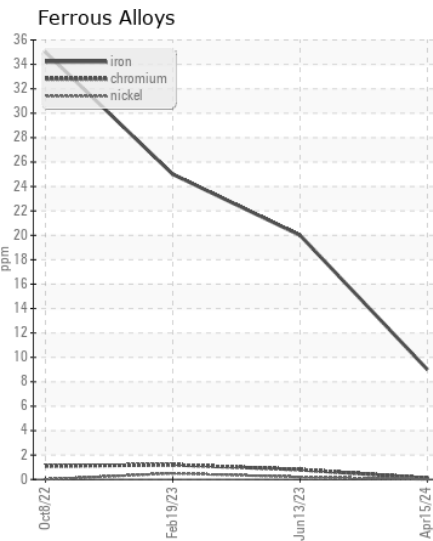
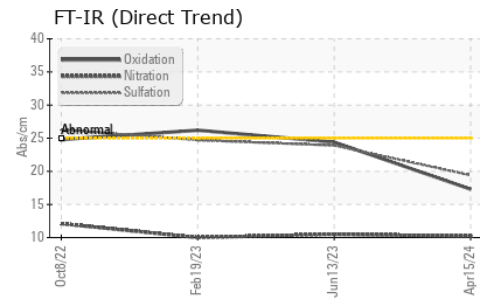
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	3	5	7
Potassium	ppm	ASTM D5185m	>20	21	44	62
Fuel	%	ASTM D3524	>5	<1.0	<1.0	▲ 2.1
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.3	0.5	0.5
Nitration	Abs/cm	*ASTM D7624	>20	10.2	10.5	10.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.4	23.9	24.7
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		1	2	2
Boron	ppm	ASTM D5185m		59	31	37
Barium	ppm	ASTM D5185m		1	11	0
Molybdenum	ppm	ASTM D5185m		107	39	43
Manganese	ppm	ASTM D5185m		<1	<1	1
Magnesium	ppm	ASTM D5185m		628	404	468
Calcium	ppm	ASTM D5185m		1345	1350	1686
Phosphorus	ppm	ASTM D5185m		781	603	711
Zinc	ppm	ASTM D5185m		856	777	907
Sulfur	ppm	ASTM D5185m		3264	2359	2489
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.3	24.4	26.2
Base Number (BN)	mg KOH/g	ASTM D2896	12	6.4	8.8	8.0
Visc @ 100°C	cSt	ASTM D445	14.4	12.2	12.9	● 12.3



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RPL0016475 **Received** : 14 May 2024
Lab Number : 06178417 **Tested** : 14 May 2024
Unique Number : 11029743 **Diagnosed** : 16 May 2024 - Sean Felton
Test Package : FLEET (Additional Tests: FuelDilution)

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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)