



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
PETERBILT 405 (S/N 1XPCP4EXXR657008)
 Component
Diesel Engine
 Fluid
DIESEL ENGINE OIL SAE 40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0893912	WC0893964	WC0867908
Sample Date		Client Info		17 Jun 2024	19 Mar 2024	26 Dec 2023
Machine Age	hrs	Client Info		76769	0	0
Oil Age	hrs	Client Info		76769	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>110	28	27	31
Chromium	ppm	ASTM D5185m	>4	1	<1	<1
Nickel	ppm	ASTM D5185m	>2	<1	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>25	5	4	7
Lead	ppm	ASTM D5185m	>45	2	1	2
Copper	ppm	ASTM D5185m	>85	1	1	<1
Tin	ppm	ASTM D5185m	>4	<1	<1	2
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

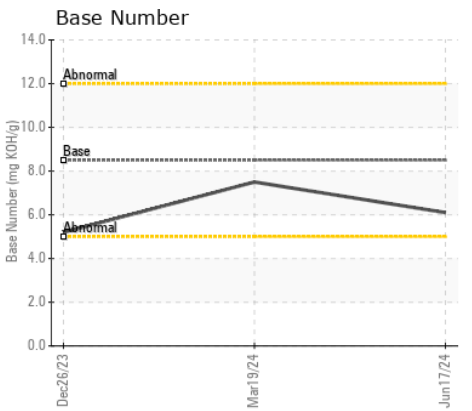
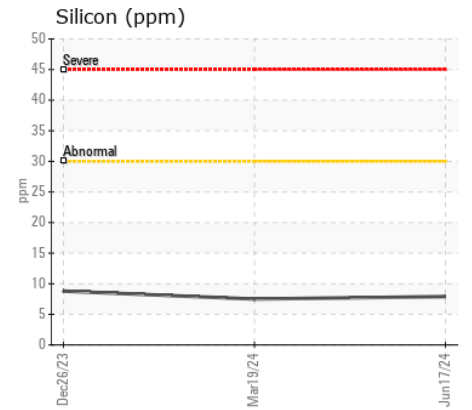
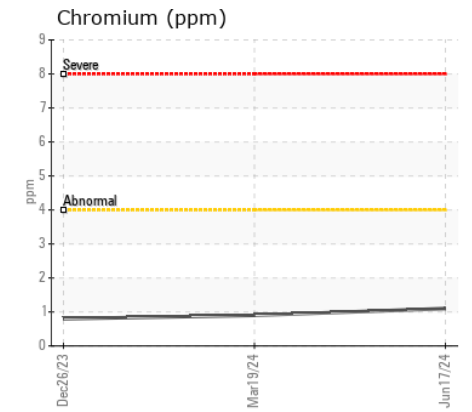
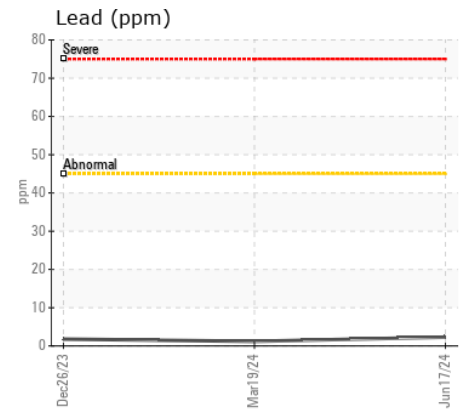
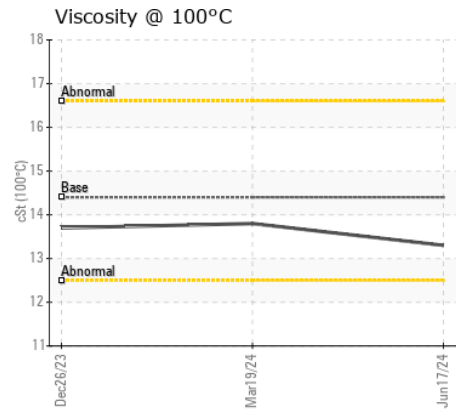
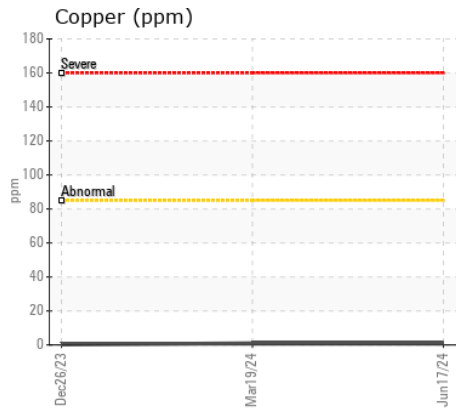
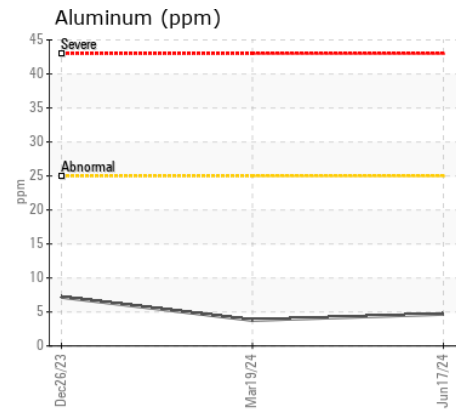
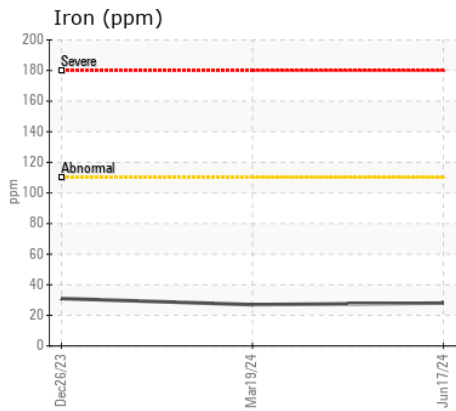
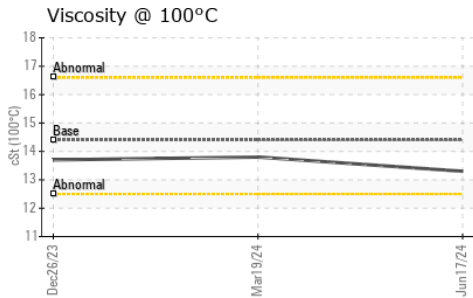
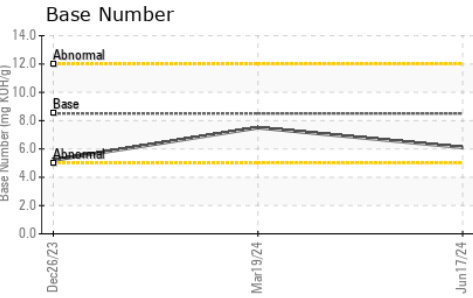
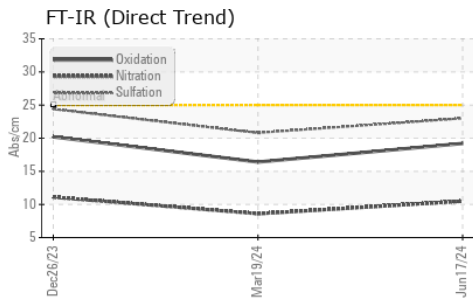
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>30	8	8	9
Potassium	ppm	ASTM D5185m	>20	7	6	15
Fuel	%	ASTM D3524	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	1	0.6	1.1
Nitration	Abs/cm	*ASTM D7624	>20	10.5	8.6	11.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.0	20.8	24.4
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	>216	0	0	0
Boron	ppm	ASTM D5185m	250	3	2	10
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	66	68	72
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	450	946	960	546
Calcium	ppm	ASTM D5185m	3000	1140	1198	1617
Phosphorus	ppm	ASTM D5185m	1150	1020	1015	1060
Zinc	ppm	ASTM D5185m	1350	1303	1301	1354
Sulfur	ppm	ASTM D5185m	4250	2770	2858	3229
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.2	16.4	20.2
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	6.1	7.5	5.2
Visc @ 100°C	cSt	ASTM D445	14.4	13.3	13.8	13.7



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0893912 **Received** : 20 Jun 2024
Lab Number : 06216441 **Tested** : 23 Jun 2024
Unique Number : 11089305 **Diagnosed** : 23 Jun 2024 - Don Baldrige
Test Package : MOB 1 (Additional Tests: FuelDilution, TBN)

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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)