



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
(75593A)
Machine Id
PETERBILT ASL-13
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		WC0941093	WC0875516	WC0875553
Sample Date		Client Info		17 Jun 2024	09 Apr 2024	04 Mar 2024
Machine Age	hrs	Client Info		2748	2191	1866
Oil Age	hrs	Client Info		600	600	600
Filter Age	hrs	Client Info		600	0	600
Oil Changed		Client Info		Changed	Changed	N/A
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	11	5	9
Chromium	ppm	ASTM D5185m	>20	<1	0	1
Nickel	ppm	ASTM D5185m	>4	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	10	6	9
Lead	ppm	ASTM D5185m	>40	0	0	<1
Copper	ppm	ASTM D5185m	>330	<1	0	4
Tin	ppm	ASTM D5185m	>15	0	<1	<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

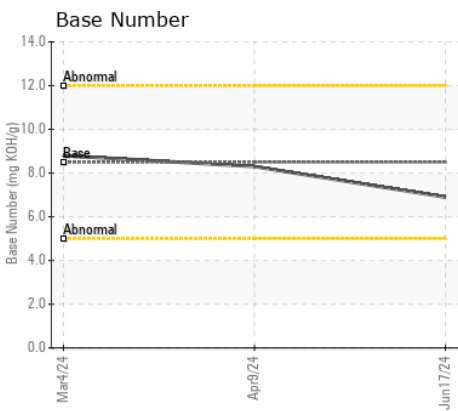
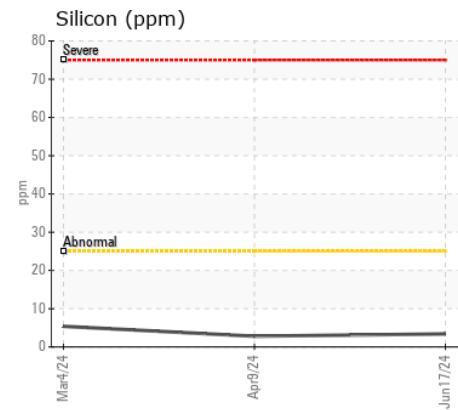
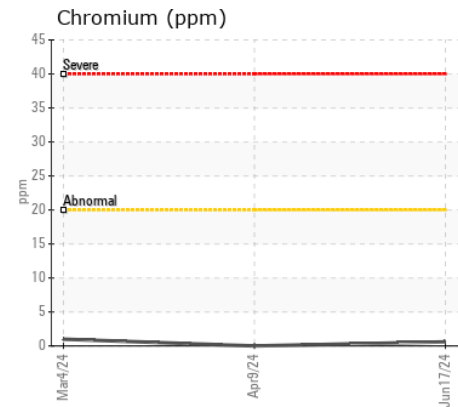
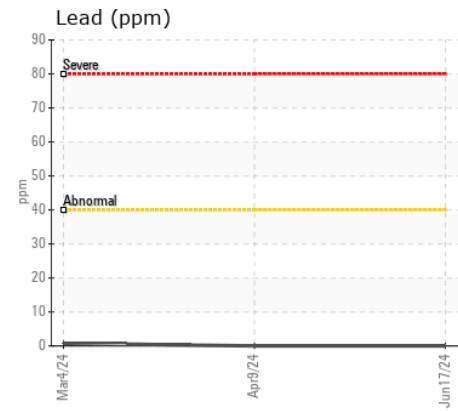
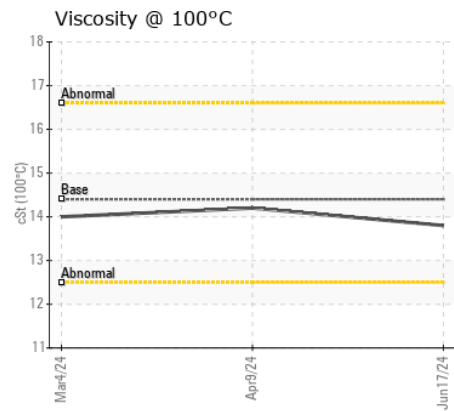
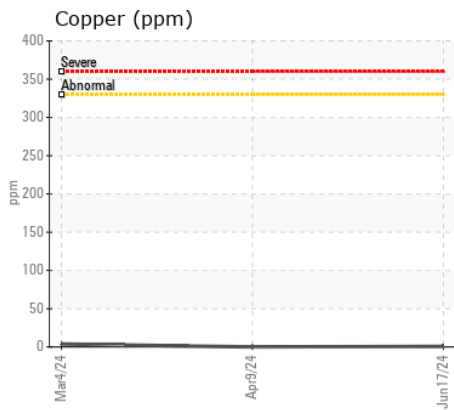
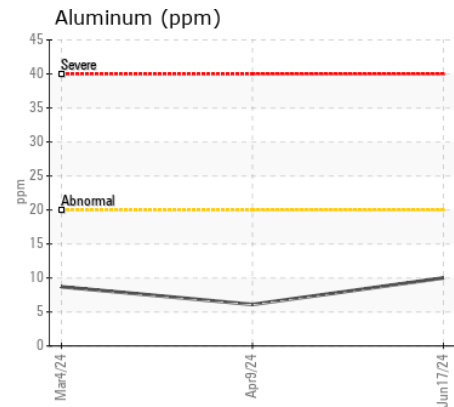
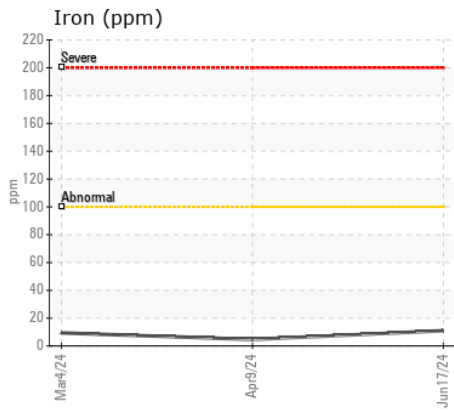
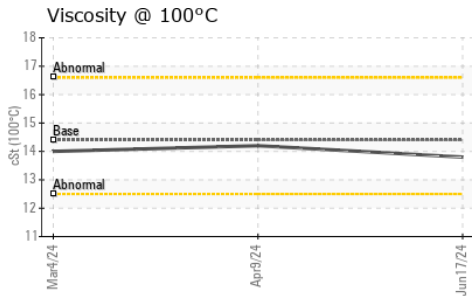
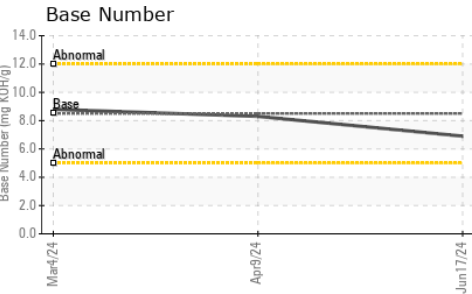
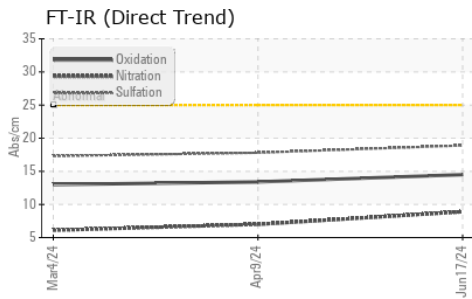
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	3	3	5
Potassium	ppm	ASTM D5185m	>20	24	12	23
Fuel		WC Method	>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	0.4	0.2	0.1
Nitration	Abs/cm	*ASTM D7624	>20	8.9	7.0	6.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.9	17.8	17.3
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	1	0	0
Boron	ppm	ASTM D5185m	250	4	7	10
Barium	ppm	ASTM D5185m	10	0	0	<1
Molybdenum	ppm	ASTM D5185m	100	68	68	80
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m	450	902	856	793
Calcium	ppm	ASTM D5185m	3000	1309	1196	1164
Phosphorus	ppm	ASTM D5185m	1150	1092	1070	1082
Zinc	ppm	ASTM D5185m	1350	1353	1265	1150
Sulfur	ppm	ASTM D5185m	4250	4086	3623	3294
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.5	13.4	13.0
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	6.9	8.3	8.8
Visc @ 100°C	cSt	ASTM D445	14.4	13.8	14.2	14.0



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0941093 **Received** : 01 Jul 2024
Lab Number : 06224419 **Tested** : 02 Jul 2024
Unique Number : 11102616 **Diagnosed** : 02 Jul 2024 - Jonathan Hester
Test Package : MOB 1 (Additional Tests: TBN)

OAKRIDGE WASTE
 307 WHITE ST
 DANBURY, CT
 US 06810

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Contact: CHRIS CONTI
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* - 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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