



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
PETERBILT R13
Component
Diesel Engine
Fluid
10W30 DURON SEMI (--- QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LP0001474	LP0001312	LP0001145
Sample Date		Client Info		10 Jun 2024	30 Mar 2024	06 Dec 2023
Machine Age	hrs	Client Info		7577	7085	6403
Oil Age	hrs	Client Info		492	682	483
Filter Age	hrs	Client Info		492	682	483
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	18	21	9
Chromium	ppm	ASTM D5185m	>20	1	<1	0
Nickel	ppm	ASTM D5185m	>4	<1	0	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	3	3	3
Lead	ppm	ASTM D5185m	>40	4	2	<1
Copper	ppm	ASTM D5185m	>330	2	0	5
Tin	ppm	ASTM D5185m	>15	<1	1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

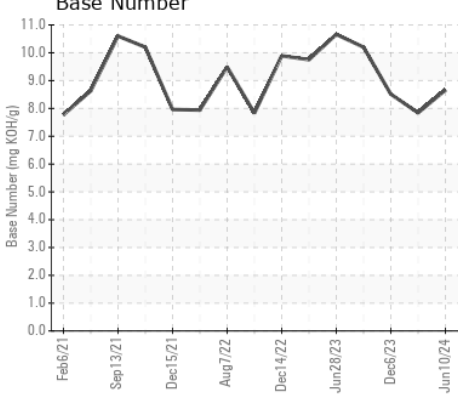
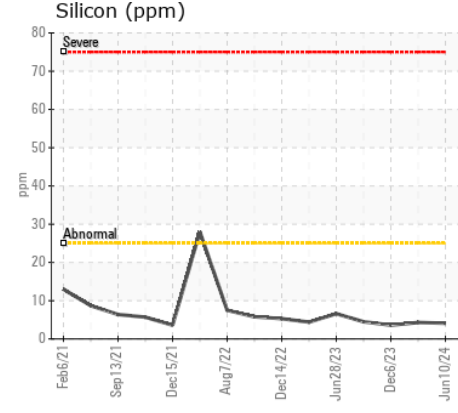
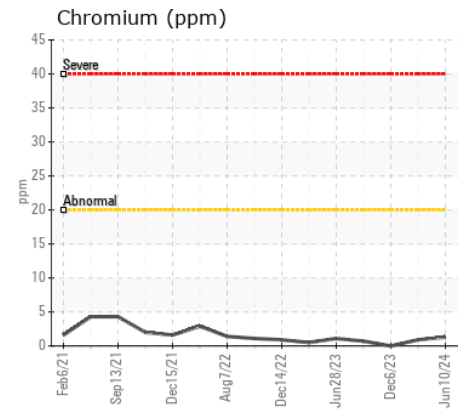
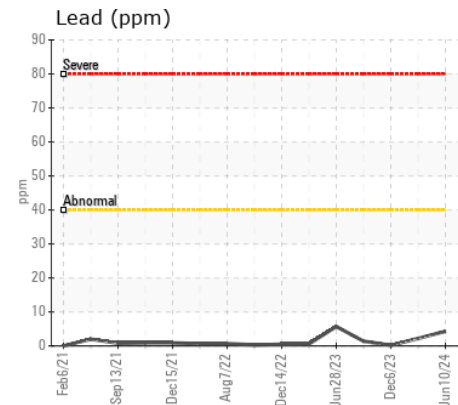
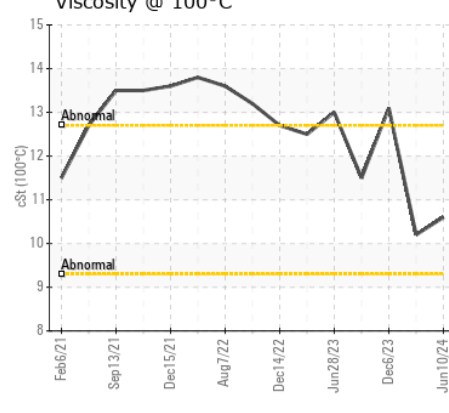
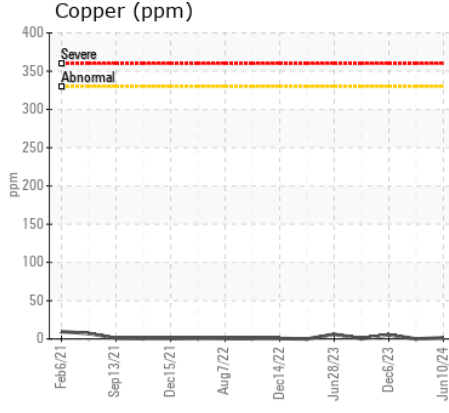
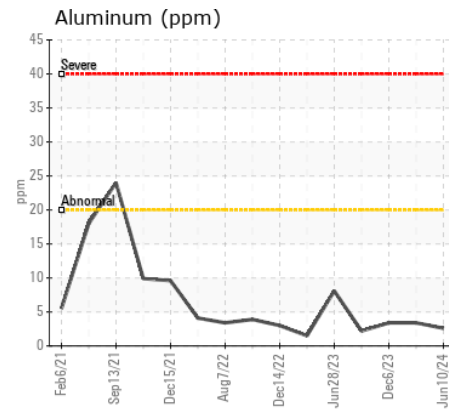
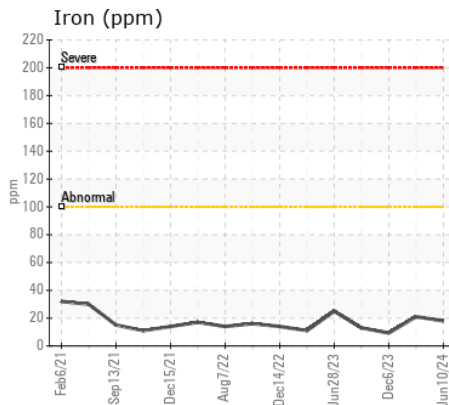
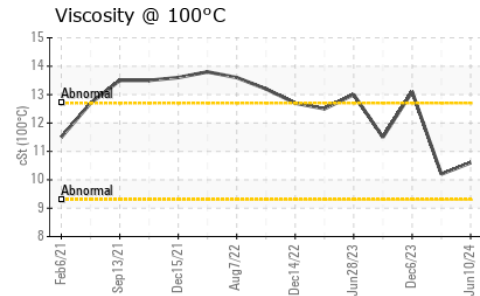
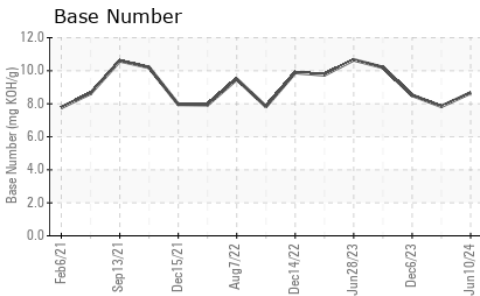
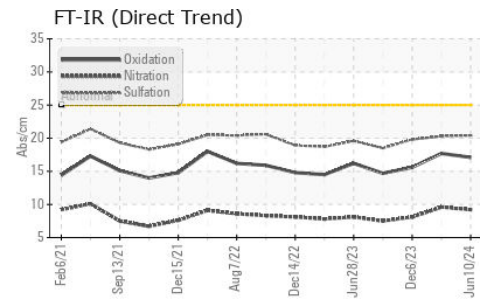
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	4	4	4
Potassium	ppm	ASTM D5185m	>20	5	5	6
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	0.5	0.5	0.2
Nitration	Abs/cm	*ASTM D7624	>20	9.2	9.6	8.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.4	20.3	19.8
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	22
Boron	ppm	ASTM D5185m		6	8	7
Barium	ppm	ASTM D5185m		1	0	0
Molybdenum	ppm	ASTM D5185m		57	58	66
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		817	911	863
Calcium	ppm	ASTM D5185m		1107	1020	1089
Phosphorus	ppm	ASTM D5185m		1061	1030	1013
Zinc	ppm	ASTM D5185m		1154	1219	1244
Sulfur	ppm	ASTM D5185m		2935	3443	3065
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.1	17.7	15.6
Base Number (BN)	mg KOH/g	ASTM D2896		8.66	7.84	8.51
Visc @ 100°C	cSt	ASTM D445		10.6	10.2	13.1



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LP0001474
Lab Number : 06218910
Unique Number : 11097107
Test Package : MOB 2
Received : 24 Jun 2024
Tested : 25 Jun 2024
Diagnosed : 25 Jun 2024 - Wes Davis

SELECT DEMO
 40 LOWELL RD
 SALEM, NH
 US 03079
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 SDOGIL@SELECTDEMOSERVICES.COM
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 F: (603)458-7389

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)