MOB I

Dura-Check Fluid Analysis

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
PETERBILT 389 DT96
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 15W40 (38 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

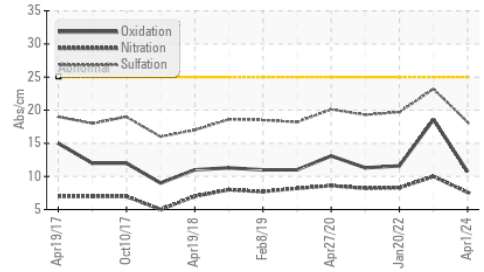
There is no indication of any contamination in the oil.

FLUID CONDITION

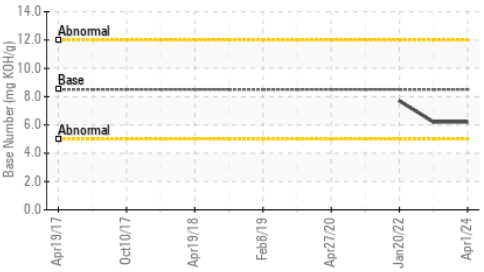
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		DC0036908	DC05888251	DC0018934
Sample Date		Client Info		01 Apr 2024	26 Jun 2023	20 Jan 2022
Machine Age	mls	Client Info		123631	114305	94909
Oil Age	mls	Client Info		9326	9215	10095
Filter Age	mls	Client Info		9326	9215	10095
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>110	14	13	12
Chromium	ppm	ASTM D5185m	>4	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	<1	0	<1
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>25	5	1	3
Lead	ppm	ASTM D5185m	>45	<1	0	<1
Copper	ppm	ASTM D5185m	>85	3	2	2
Tin	ppm	ASTM D5185m	>4	<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
Silicon	ppm	ASTM D5185m	>30	6	6	5
Potassium	ppm	ASTM D5185m	>20	4	5	4
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	0.3	1.2	0.2
Nitration	Abs/cm	*ASTM D7624	>20	7.6	10.0	8.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.2	23.2	19.7
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
Sodium	ppm	ASTM D5185m	>158	2	1	1
Boron	ppm	ASTM D5185m	250	2	3	3
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	4	4	3
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	450	43	50	49
Calcium	ppm	ASTM D5185m	3000	2324	2960	2502
Phosphorus	ppm	ASTM D5185m	1150	1028	1138	949
Zinc	ppm	ASTM D5185m	1350	1097	1352	1085
Sulfur	ppm	ASTM D5185m	4250	4747	5286	3286
Oxidation	Abs/.1mm	*ASTM D7414	>25	10.7	18.6	11.6
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	6.2	6.2	7.7
Visc @ 100°C	cSt	ASTM D445	14.4	13.6	13.3	13.5

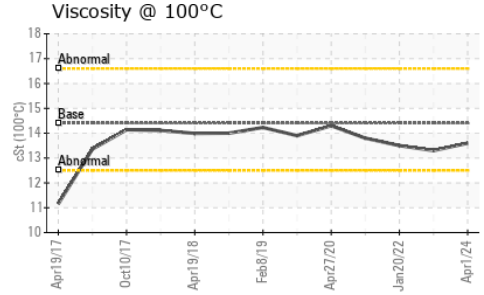
FT-IR (Direct Trend)



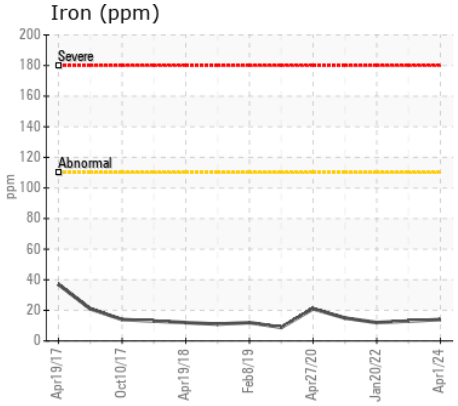
Base Number



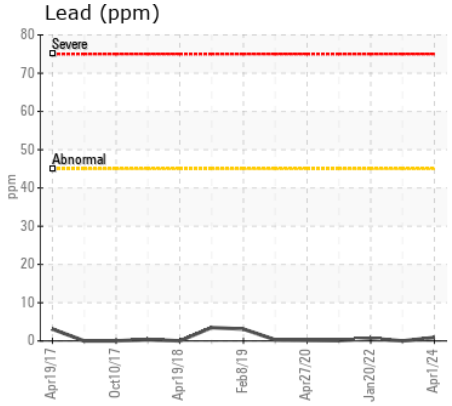
Viscosity @ 100°C



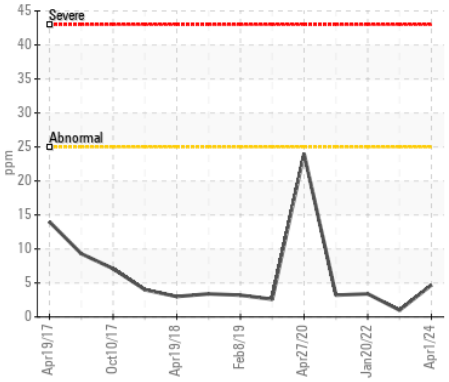
Iron (ppm)



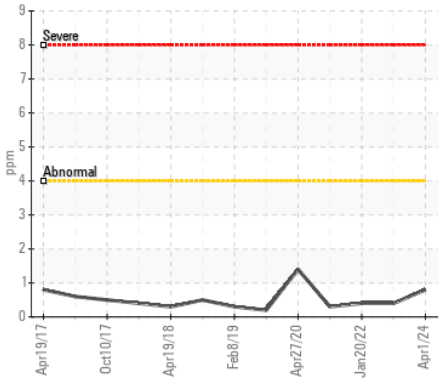
Lead (ppm)



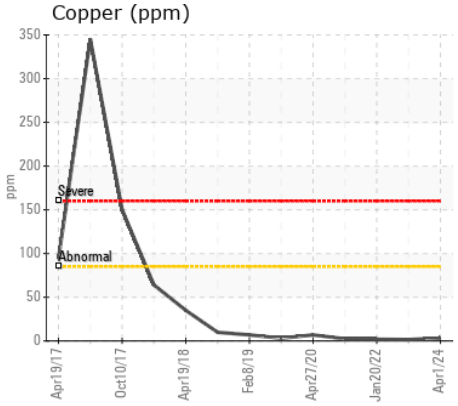
Aluminum (ppm)



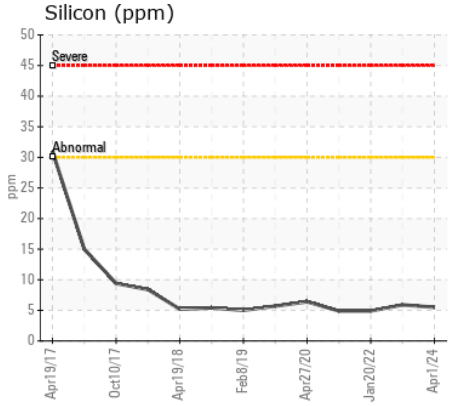
Chromium (ppm)



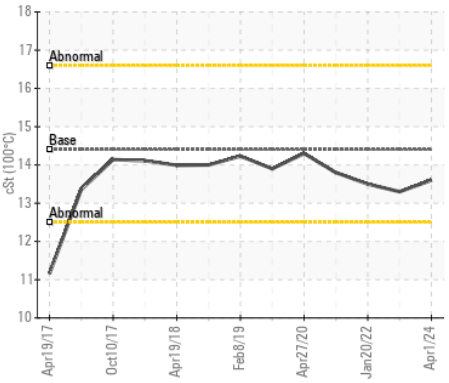
Copper (ppm)



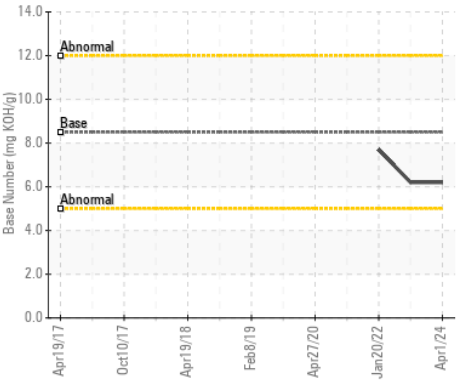
Silicon (ppm)



Viscosity @ 100°C



Base Number



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : DC0036908
Lab Number : 06161071
Unique Number : 10996494
Test Package : MOB 1 (Additional Tests: TBN)

Received : 25 Apr 2024
Tested : 26 Apr 2024
Diagnosed : 26 Apr 2024 - Wes Davis

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)

ROSS CONTRACTING INC.
1007 RISING RIDGE ROAD
MOUNT AIRY, MD
US 21771
Contact: JONATHAN KUENTZ
jonathank@rosscontracting.com
T: (301)831-5500
F: (301)831-5900