



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
2001 Peterbilt 379 RT-26 (S/N 1XP5D40X51N571355)

Component
Diesel Engine

Fluid
DURALENE Dura-Max 15W40 (--- GAL)

RECOMMENDATION

The oil change at the time of sampling has been noted.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		DC0034606	DC0022513	DC0023167
Sample Date		Client Info		02 Feb 2024	30 Nov 2022	31 May 2022
Machine Age	mls	Client Info		487144	468905	459056
Oil Age	mls	Client Info		9910	9849	10104
Filter Age	mls	Client Info		9910	9849	10104
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	27	23	36
Chromium	ppm	ASTM D5185m	>20	<1	<1	1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	1	1	1
Lead	ppm	ASTM D5185m	>40	<1	<1	1
Copper	ppm	ASTM D5185m	>330	<1	1	4
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

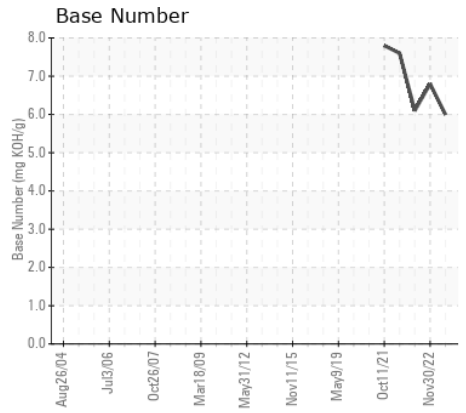
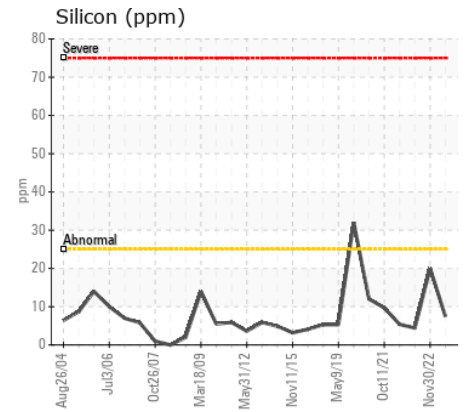
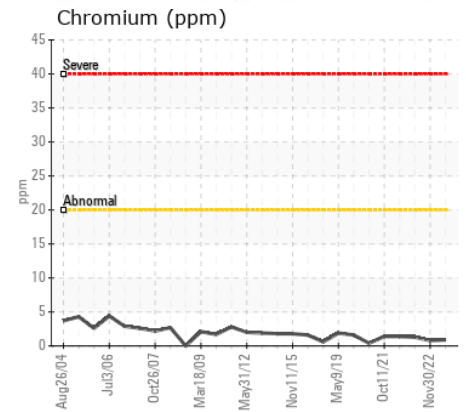
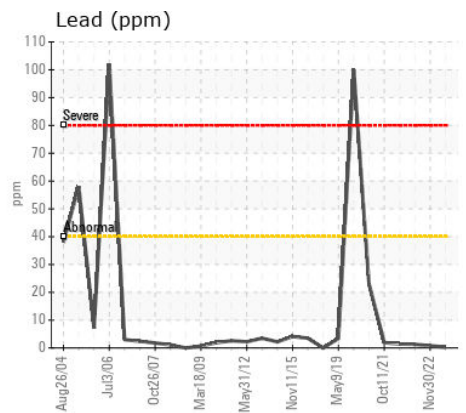
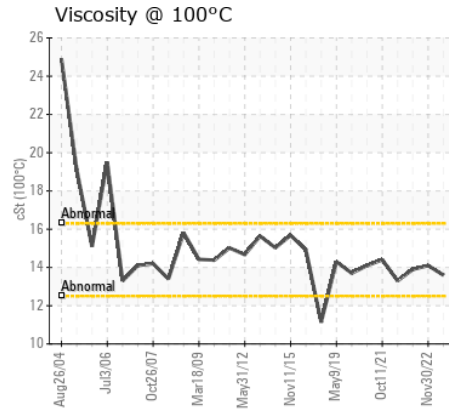
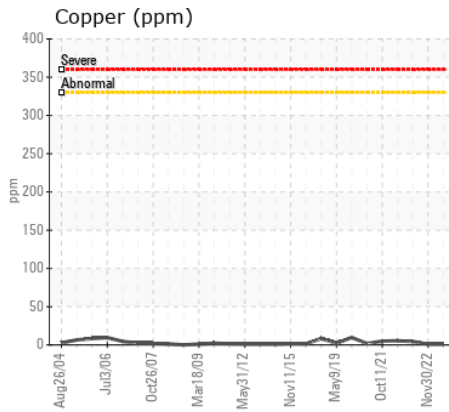
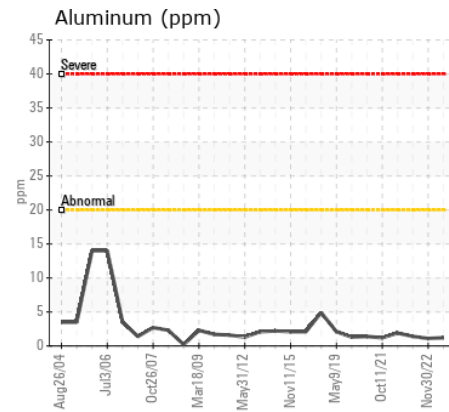
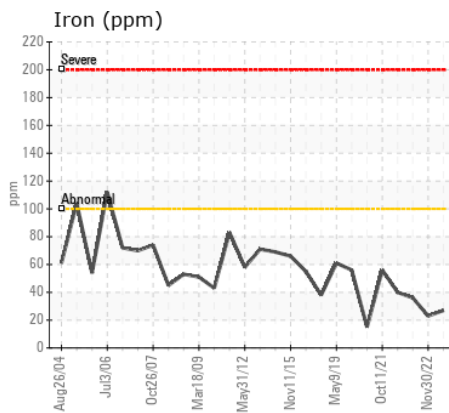
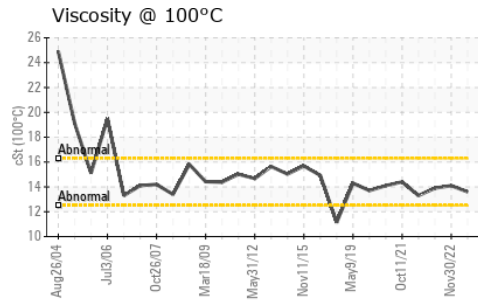
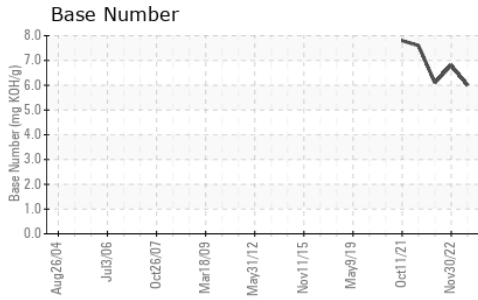
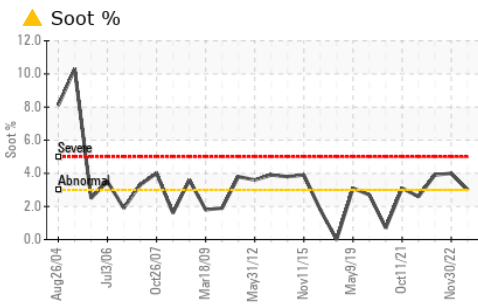
Light concentration of carbon/soot present in the oil.

Silicon	ppm	ASTM D5185m	>25	8	20	4
Potassium	ppm	ASTM D5185m	>20	<1	0	0
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	3	4	3.9
Nitration	Abs/cm	*ASTM D7624	>20	9.5	10.2	11.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.4	25.6	25.9
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 oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185m		2	<1	1
Boron	ppm	ASTM D5185m		2	0	6
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		2	3	4
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m		52	45	56
Calcium	ppm	ASTM D5185m		2372	2344	2447
Phosphorus	ppm	ASTM D5185m		954	853	859
Zinc	ppm	ASTM D5185m		1110	1032	1040
Sulfur	ppm	ASTM D5185m		3719	4015	4015
Oxidation	Abs/.1mm	*ASTM D7414	>25	11.7	11.4	11.4
Base Number (BN)	mg KOH/g	ASTM D2896		6.0	6.8	6.1
Visc @ 100°C	cSt	ASTM D445		13.6	14.1	13.9



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : DC0034606 **Received** : 28 Feb 2024
Lab Number : 06103463 **Tested** : 01 Mar 2024
Unique Number : 10901693 **Diagnosed** : 01 Mar 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: TBN)

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

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)