OIL ANALYSIS REPORT

WEAR	SEVERE
CONTAMINATION	SEVERE
FLUID CONDITION	ABNORMAL

Machine Id
PETERBILT 200810
Component
Diesel Engine
Fluid
MOBIL DELVAC 1300 SUPER 15W40 (--- GAL)

RECOMMENDATION

We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

WEAR

The aluminum level is severe. Piston wear is indicated.

CONTAMINATION

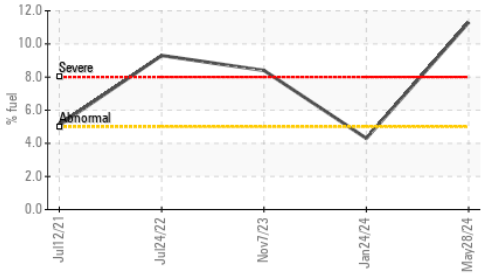
There is a high amount of fuel present in the oil.

FLUID CONDITION

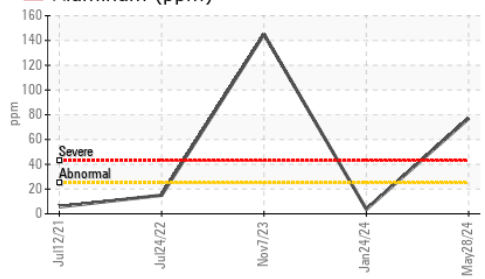
Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**WC0840297**	WC0840239	WC0840276
Sample Date		Client Info		**28 May 2024**	24 Jan 2024	07 Nov 2023
Machine Age	mls	Client Info		**388600**	0	38614
Oil Age	mls	Client Info		**0**	0	0
Filter Age	mls	Client Info		**0**	0	0
Oil Changed		Client Info		**Changed**	Changed	Changed
Filter Changed		Client Info		**Changed**	Changed	Changed
Sample Status				**SEVERE**	ATTENTION	SEVERE
Iron	ppm	ASTM D5185m	>110	**56**	5	110
Chromium	ppm	ASTM D5185m	>4	**2**	<1	6
Nickel	ppm	ASTM D5185m	>2	**<1**	<1	3
Titanium	ppm	ASTM D5185m		**<1**	<1	<1
Silver	ppm	ASTM D5185m	>2	**0**	0	0
Aluminum	ppm	ASTM D5185m	>25	▲ **77**	4	▲ 145
Lead	ppm	ASTM D5185m	>45	**0**	<1	2
Copper	ppm	ASTM D5185m	>85	**<1**	1	7
Tin	ppm	ASTM D5185m	>4	**<1**	<1	2
Vanadium	ppm	ASTM D5185m		**<1**	<1	<1
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silicon	ppm	ASTM D5185m	>30	**10**	6	26
Potassium	ppm	ASTM D5185m	>20	**8**	5	14
Fuel	%	ASTM D3524	>5	▲ **11.3**	▲ 4.3	▲ 8.4
Water		WC Method	>0.2	**NEG**	NEG	NEG
Glycol		WC Method		**NEG**	NEG	NEG
Soot %	%	*ASTM D7844	>3	**0.3**	0	0.2
Nitration	Abs/cm	*ASTM D7624	>20	**11.3**	7.5	11.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	**19.3**	17.3	20.5
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		**2**	3	5
Boron	ppm	ASTM D5185m	0	**61**	● 145	46
Barium	ppm	ASTM D5185m	0	**0**	1	0
Molybdenum	ppm	ASTM D5185m	0	**79**	● 122	58
Manganese	ppm	ASTM D5185m		**2**	<1	4
Magnesium	ppm	ASTM D5185m	0	**557**	632	507
Calcium	ppm	ASTM D5185m		**1276**	1332	1368
Phosphorus	ppm	ASTM D5185m		**690**	726	732
Zinc	ppm	ASTM D5185m		**782**	843	810
Sulfur	ppm	ASTM D5185m		**3165**	3360	2450
Oxidation	Abs/.1mm	*ASTM D7414	>25	**19.1**	14.4	21.1
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	**6.7**	7.2	6.6
Visc @ 100°C	cSt	ASTM D445	14	▲ **10.7**	12.0	▲ 10.9

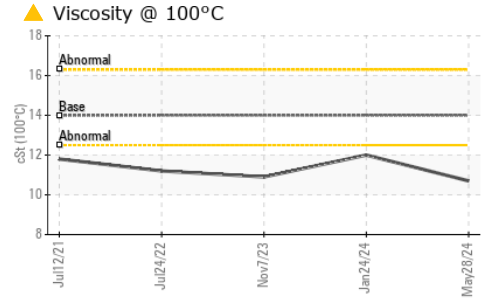
Fuel Dilution



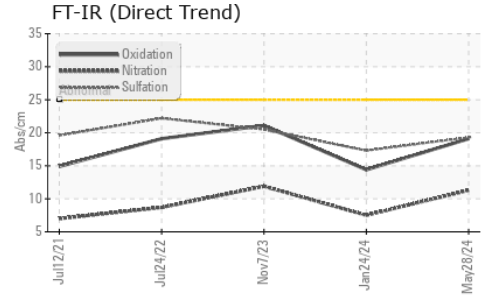
Aluminum (ppm)



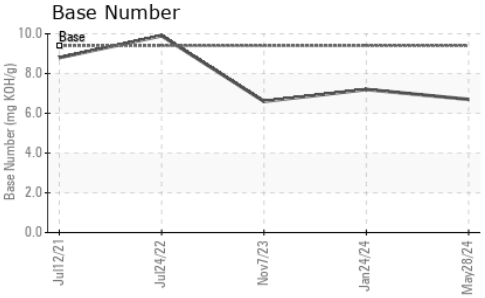
Viscosity @ 100°C



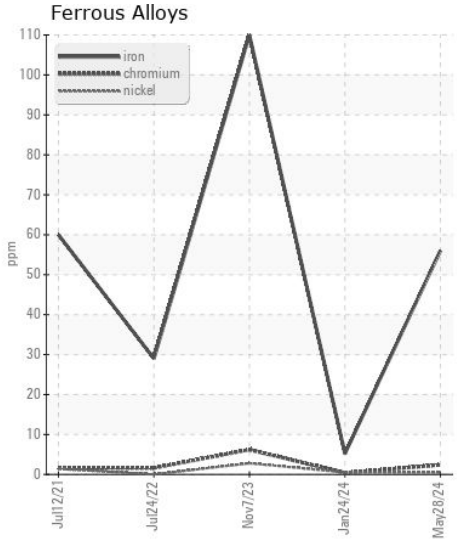
FT-IR (Direct Trend)



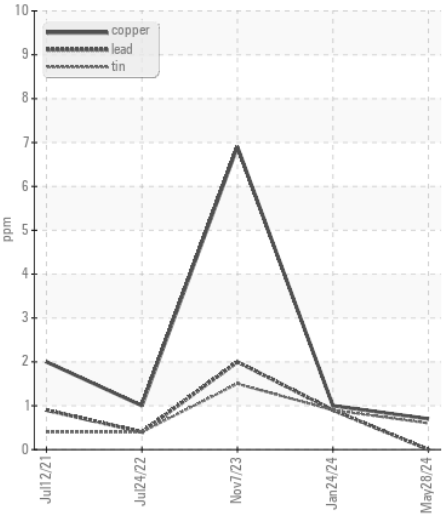
Base Number



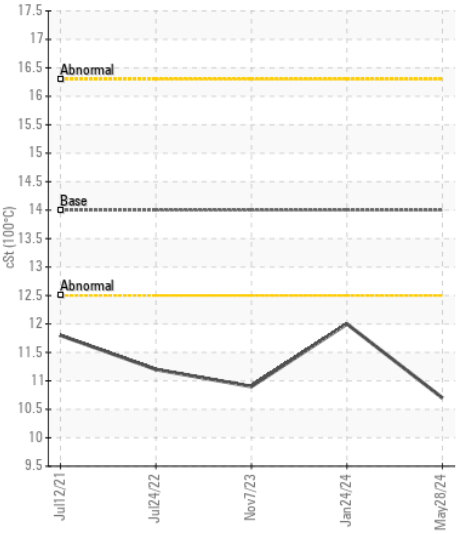
Ferrous Alloys



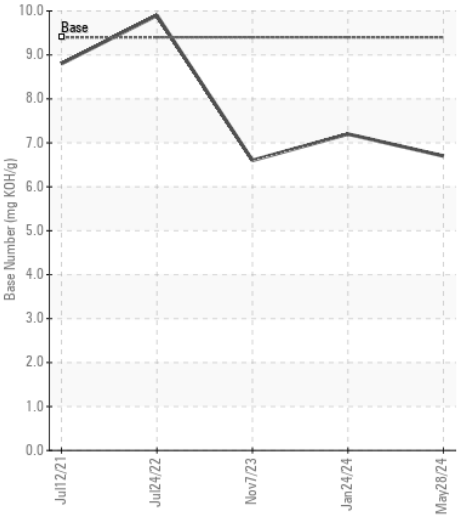
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0840297
Lab Number : 06227213
Unique Number : 11110706
Test Package : CONST (Additional Tests: FuelDilution, PercentFuel, TBN)

Received : 03 Jul 2024
Tested : 08 Jul 2024
Diagnosed : 08 Jul 2024 - Jonathan Hester

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)

THE BAYOU COMPANY LLC
5200 CURTIS LN
NEW IBERIA, LA
US 70560
Contact: LES BORDELON
lesb@bayoucompanies.com
T: (800)619-4807
F: (337)365-9747