OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ABNORMAL

Machine Id
PETERBILT 846-4578
Component
Diesel Engine
Fluid
MOBIL 15W40 (--- GAL)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. 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.

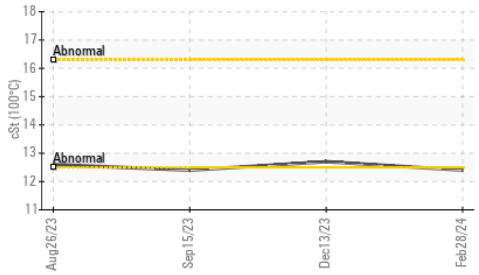
FLUID CONDITION

The BN level is low. The condition of the oil is acceptable for the time in service.

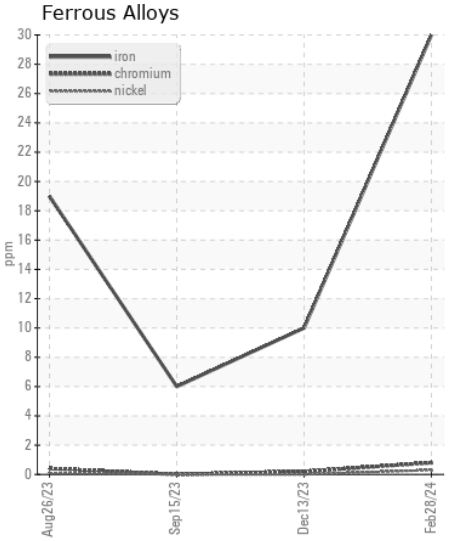
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RPL0017968	RPL0016838	RPL0015016
Sample Date		Client Info		28 Feb 2024	13 Dec 2023	15 Sep 2023
Machine Age	mls	Client Info		294582	268689	238703
Oil Age	mls	Client Info		25893	18777	6898
Filter Age	mls	Client Info		0	18777	6898
Oil Changed		Client Info		Changed	Not Changd	Filtered
Filter Changed		Client Info		Changed	Not Changd	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>110	30	10	6
Chromium	ppm	ASTM D5185m	>4	<1	<1	0
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	6	2	<1
Lead	ppm	ASTM D5185m	>45	0	0	<1
Copper	ppm	ASTM D5185m	>85	2	<1	0
Tin	ppm	ASTM D5185m	>4	<1	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>30	10	4	3
Potassium	ppm	ASTM D5185m	>20	5	2	2
Fuel	%	ASTM D3524	>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	0.2	0.1
Nitration	Abs/cm	*ASTM D7624	>20	15.4	12.0	7.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	36.2	26.6	21.4
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	>118	4	<1	3
Boron	ppm	ASTM D5185m		2	<1	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		75	59	62
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m		1123	904	1061
Calcium	ppm	ASTM D5185m		1258	1014	1188
Phosphorus	ppm	ASTM D5185m		1172	842	1133
Zinc	ppm	ASTM D5185m		1481	1157	1405
Sulfur	ppm	ASTM D5185m		3118	2847	4310
Oxidation	Abs/.1mm	*ASTM D7414	>25	44.8	28.8	19.5
Base Number (BN)	mg KOH/g	ASTM D2896		▲ 2.4	5.0	8.0
Visc @ 100°C	cSt	ASTM D445		12.4	12.7	12.4

Base Number

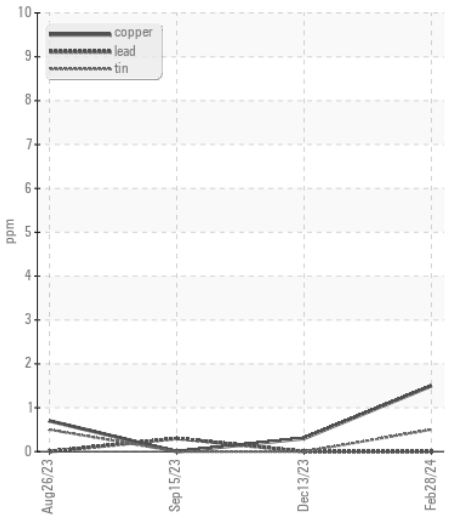
Viscosity @ 100°C



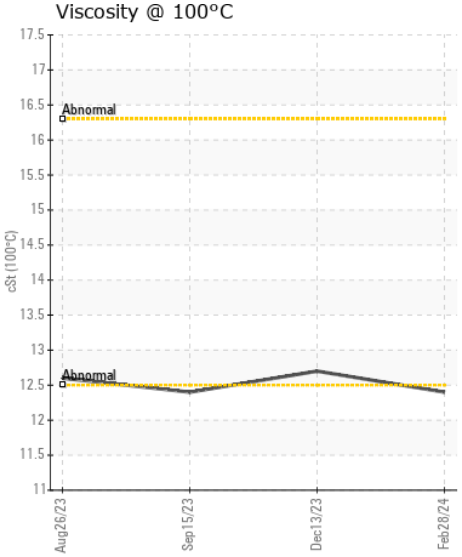
Ferrous Alloys



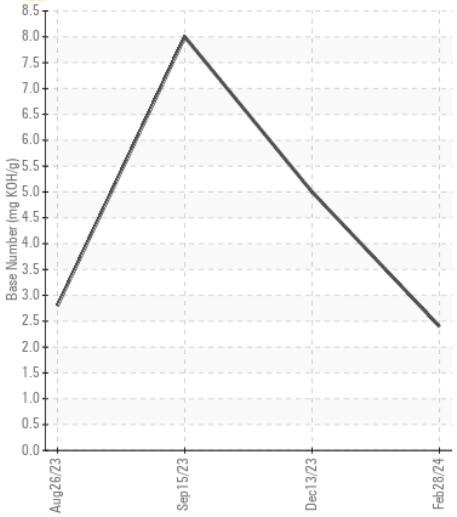
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RPL0017968
Lab Number : 06121962
Unique Number : 10936113
Test Package : FLEET (Additional Tests: FuelDilution, PercentFuel)

Received : 19 Mar 2024
Tested : 21 Mar 2024
Diagnosed : 21 Mar 2024 - Jonathan Hester

RTL PACLEASE - 7006 - Pico Rivera
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Pico Rivera, CA
US 90660
Contact: GERARDO CARROLA
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T:
F:

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)