



WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION

Area
5C07
Machine Id
PETERBILT 337 BTK6528
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 15W40 (--- QTS)

RECOMMENDATION

The oil 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

Fuel content negligible. There is no indication of any contamination in the oil.

FLUID CONDITION

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

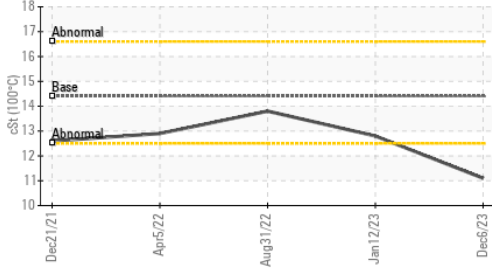
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ARI0006712	ARI0005668	ARI0005626
Sample Date		Client Info		06 Dec 2023	12 Jan 2023	31 Aug 2022
Machine Age	mls	Client Info		37354	24721	20285
Oil Age	mls	Client Info		12633	4436	5462
Filter Age	mls	Client Info		12633	4436	5462
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Not Changed	Not Changed	Not Changed
Sample Status				ATTENTION	NORMAL	NORMAL

Iron	ppm	ASTM D5185m	>110	17	29	22
Chromium	ppm	ASTM D5185m	>4	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>25	25	32	20
Lead	ppm	ASTM D5185m	>45	0	<1	0
Copper	ppm	ASTM D5185m	>85	<1	5	9
Tin	ppm	ASTM D5185m	>4	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

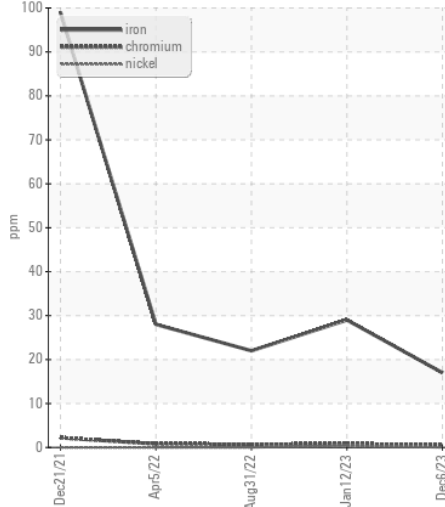
Silicon	ppm	ASTM D5185m	>30	7	8	6
Potassium	ppm	ASTM D5185m	>20	75	69	51
Fuel	%	ASTM D3524	>5	0.8	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.2	0.3	0.2
Nitration	Abs/cm	*ASTM D7624	>20	9.0	7.8	7.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.5	18.1	19.6
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	0
Boron	ppm	ASTM D5185m	250	70	18	10
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	4	61	63
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	450	770	946	873
Calcium	ppm	ASTM D5185m	3000	1277	1115	1090
Phosphorus	ppm	ASTM D5185m	1150	768	1010	1029
Zinc	ppm	ASTM D5185m	1350	859	1309	1225
Sulfur	ppm	ASTM D5185m	4250	3022	3761	2935
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.5	14.4	15.4
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	7.9	8.7	10.4
Visc @ 100°C	cSt	ASTM D445	14.4	▲ 11.1	12.8	13.8

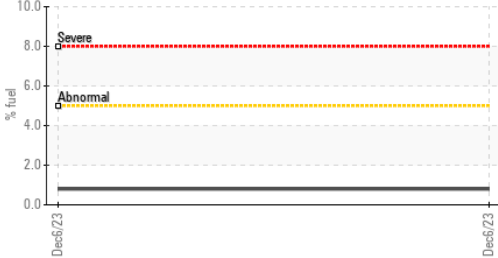
▲ Viscosity @ 100°C



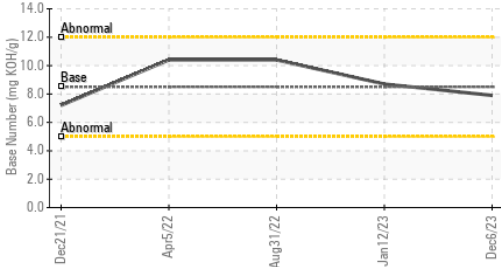
Ferrous Alloys



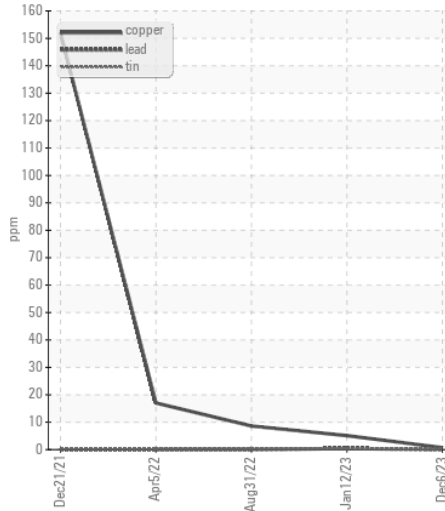
Fuel Dilution



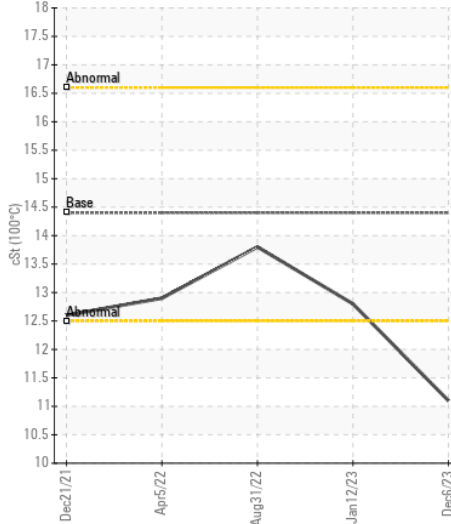
Base Number



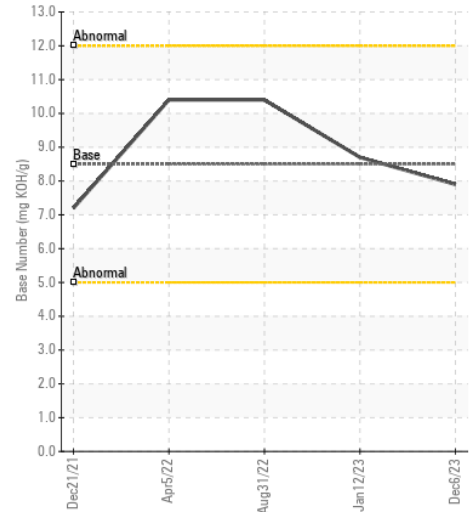
Non-ferrous Metals



▲ Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ARI0006712 **Received** : 10 Jan 2024
Lab Number : 06056377 **Diagnosed** : 14 Jan 2024
Unique Number : 10822326 **Diagnostician** : Don Baldrige
Test Package : CONST (Additional Tests: FuelDilution, PercentFuel, TBN)

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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)