CONST

WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
2H28
Machine Id
PETERBILT PB348 RTK6250 (S/N 2NP3LJ0X4KM622512)
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 15W40 (22 QTS)

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

WEAR

All component wear rates are normal.

CONTAMINATION

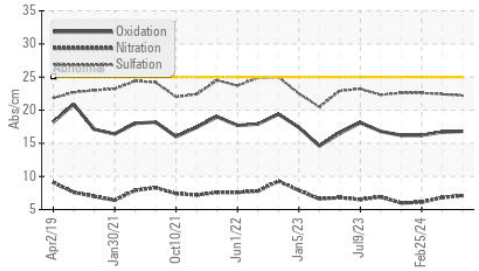
There is no indication of any contamination in the oil.

FLUID CONDITION

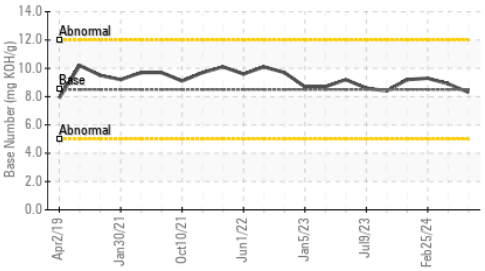
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ARI06220793	ARI06161279	ARI06099557
Sample Date		Client Info		25 Jun 2024	27 Apr 2024	25 Feb 2024
Machine Age	mls	Client Info		102131	97097	0
Oil Age	mls	Client Info		0	0	0
Filter Age	mls	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>90	<1	5	1
Chromium	ppm	ASTM D5185m	>20	<1	<1	0
Nickel	ppm	ASTM D5185m	>2	0	<1	0
Titanium	ppm	ASTM D5185m	>2	0	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	4	4	3
Lead	ppm	ASTM D5185m	>40	0	<1	<1
Copper	ppm	ASTM D5185m	>330	<1	1	<1
Tin	ppm	ASTM D5185m	>15	0	<1	0
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	5	6	5
Potassium	ppm	ASTM D5185m	>20	5	4	2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>6	0.2	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	7.1	6.8	6.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.2	22.4	22.6
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	<1	1	1
Boron	ppm	ASTM D5185m	250	304	385	388
Barium	ppm	ASTM D5185m	10	0	2	<1
Molybdenum	ppm	ASTM D5185m	100	113	124	127
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m	450	561	649	687
Calcium	ppm	ASTM D5185m	3000	1502	1468	1541
Phosphorus	ppm	ASTM D5185m	1150	763	726	749
Zinc	ppm	ASTM D5185m	1350	986	858	876
Sulfur	ppm	ASTM D5185m	4250	2696	2772	2673
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.8	16.7	16.2
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.3	8.9	9.3
Visc @ 100°C	cSt	ASTM D445	14.4	12.9	13.3	12.8

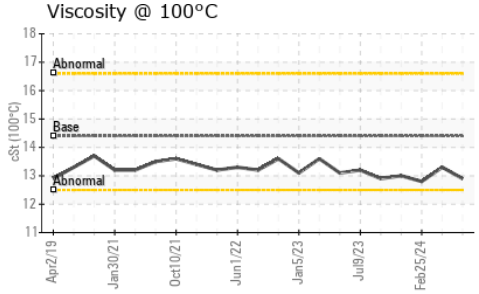
FT-IR (Direct Trend)



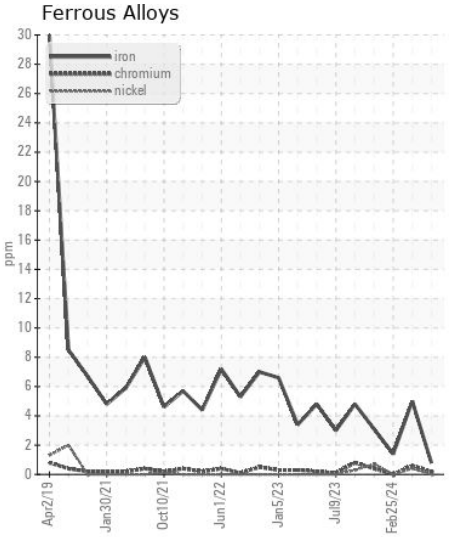
Base Number



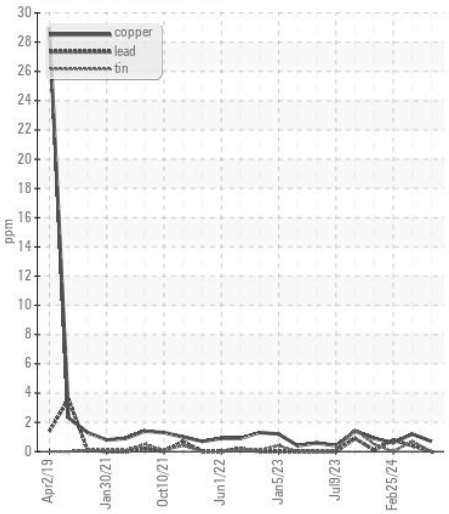
Viscosity @ 100°C



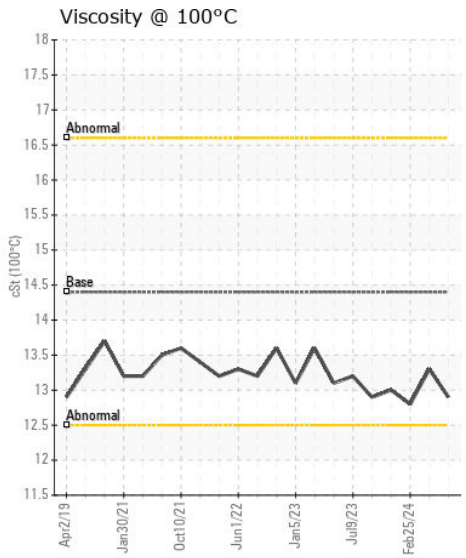
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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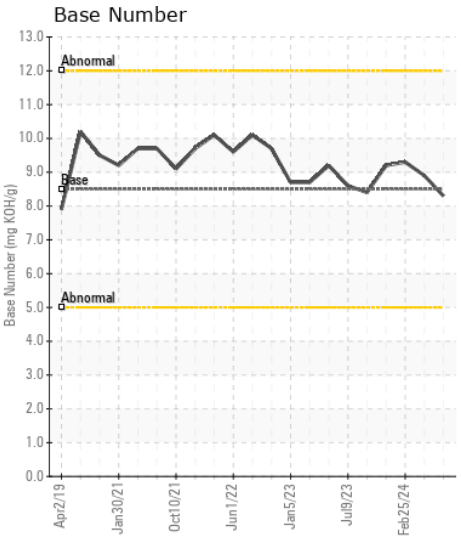

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ARI06220793
Lab Number : 06220793
Unique Number : 11098990
Test Package : CONST (Additional Tests: TBN)

Received : 26 Jun 2024
Tested : 26 Jun 2024
Diagnosed : 26 Jun 2024 - Wes Davis

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)

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