OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
PETERBILT 21722
Component
Diesel Engine
Fluid
SHELL ROTELLA T 10W30 (48 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

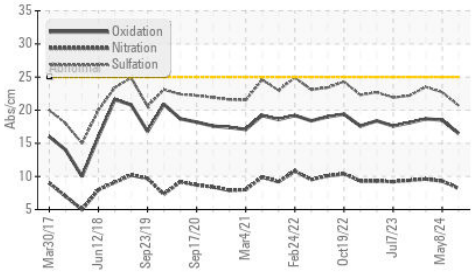
There is no indication of any contamination in the oil.

FLUID CONDITION

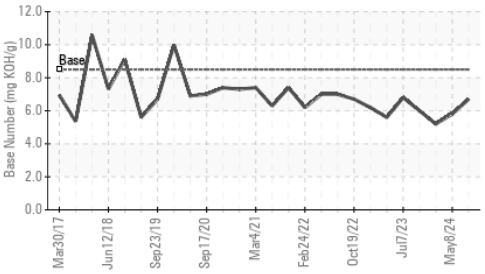
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**WC0955676**	WC0909730	WC0909771
Sample Date		Client Info		**08 Jul 2024**	08 May 2024	03 Mar 2024
Machine Age	mls	Client Info		**304312**	296243	284775
Oil Age	mls	Client Info		**8069**	14716	13200
Filter Age	mls	Client Info		**8069**	14716	13200
Oil Changed		Client Info		**Changed**	Changed	Changed
Filter Changed		Client Info		**Changed**	Changed	Changed
Sample Status				**NORMAL**	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>110	**20**	4	10
Chromium	ppm	ASTM D5185m	>4	**<1**	<1	0
Nickel	ppm	ASTM D5185m	>2	**0**	0	<1
Titanium	ppm	ASTM D5185m		**<1**	0	<1
Silver	ppm	ASTM D5185m	>2	**0**	0	0
Aluminum	ppm	ASTM D5185m	>25	**4**	1	3
Lead	ppm	ASTM D5185m	>45	**0**	0	<1
Copper	ppm	ASTM D5185m	>85	**1**	0	0
Tin	ppm	ASTM D5185m	>4	**0**	<1	<1
Vanadium	ppm	ASTM D5185m		**<1**	0	0
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silicon	ppm	ASTM D5185m	>30	**7**	4	5
Potassium	ppm	ASTM D5185m	>20	**9**	8	12
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	**0.2**	0.2	0.3
Nitration	Abs/cm	*ASTM D7624	>20	**8.2**	9.3	9.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	**20.7**	22.7	23.5
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		**<1**	1	2
Boron	ppm	ASTM D5185m	269	**89**	129	105
Barium	ppm	ASTM D5185m		**0**	<1	0
Molybdenum	ppm	ASTM D5185m	0	**16**	1	7
Manganese	ppm	ASTM D5185m		**0**	<1	<1
Magnesium	ppm	ASTM D5185m	20	**212**	29	63
Calcium	ppm	ASTM D5185m	1521	**2052**	2264	2082
Phosphorus	ppm	ASTM D5185m	948	**999**	1008	969
Zinc	ppm	ASTM D5185m	893	**1188**	1212	1207
Sulfur	ppm	ASTM D5185m		**3021**	3836	3288
Oxidation	Abs/.1mm	*ASTM D7414	>25	**16.5**	18.5	18.7
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	**6.7**	5.8	5.2
Visc @ 100°C	cSt	ASTM D445	11.0	**11.8**	12.0	11.9

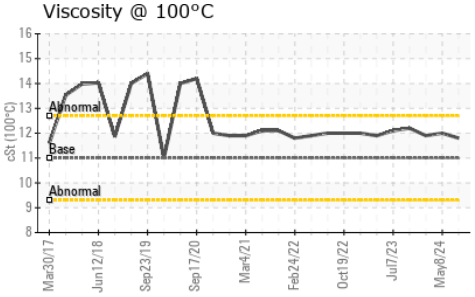
FT-IR (Direct Trend)



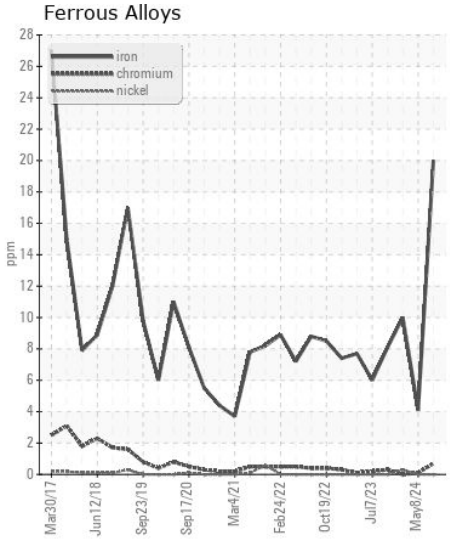
Base Number



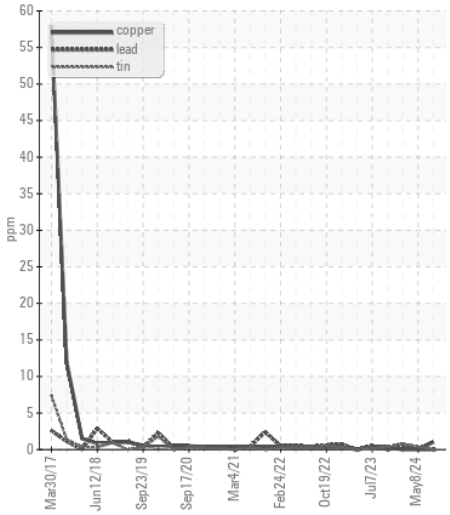
Viscosity @ 100°C



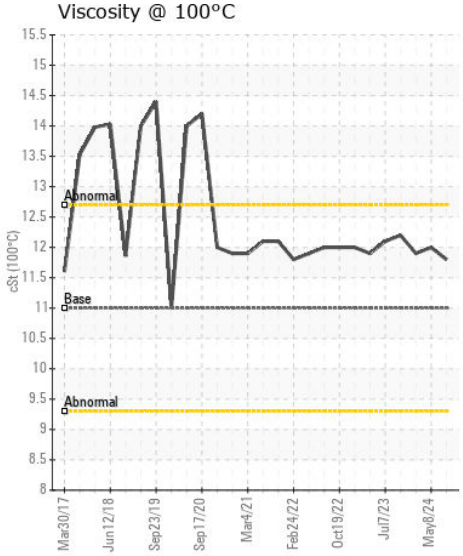
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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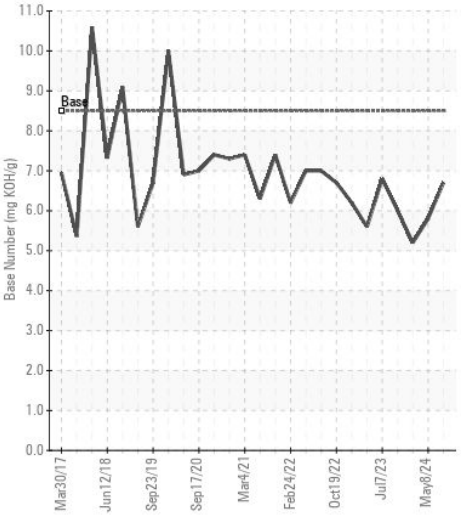

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY
Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0955676
Lab Number : 06234682
Unique Number : 11123516
Test Package : FLEET

Received : 12 Jul 2024
Tested : 15 Jul 2024
Diagnosed : 15 Jul 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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