OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
PETERBILT 567 R09 (S/N 349182)
Component
Diesel Engine
Fluid
VALVOLINE PREMIUM BLUE (--- QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

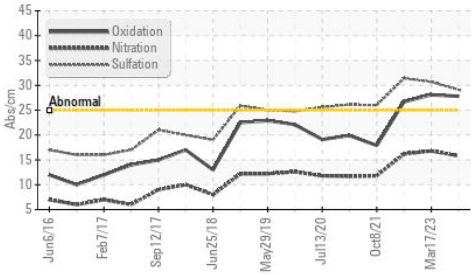
There is no indication of any contamination in the oil.

FLUID CONDITION

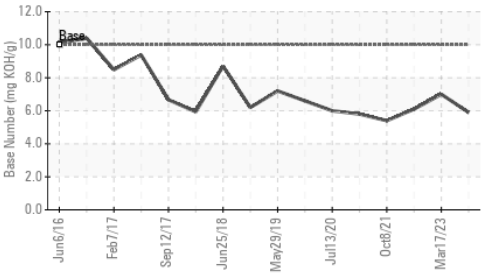
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0885557	WC0793084	WC0638728
Sample Date		Client Info		24 Jun 2024	17 Mar 2023	15 Jun 2022
Machine Age	hrs	Client Info		15810	14792	13761
Oil Age	hrs	Client Info		1018	1031	1076
Filter Age	hrs	Client Info		1018	1031	1076
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>165	59	64	53
Chromium	ppm	ASTM D5185m	>5	2	2	2
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	<1	<1	0
Aluminum	ppm	ASTM D5185m	>20	3	3	4
Lead	ppm	ASTM D5185m	>150	9	3	4
Copper	ppm	ASTM D5185m	>90	5	2	3
Tin	ppm	ASTM D5185m	>5	<1	<1	<1
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	>35	7	8	6
Potassium	ppm	ASTM D5185m	>20	7	5	8
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	>7.5	2.2	2.5	2.6
Nitration	Abs/cm	*ASTM D7624	>20	15.8	16.8	16.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	29.1	30.7	31.4
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		4	4	5
Boron	ppm	ASTM D5185m	2.9	35	31	34
Barium	ppm	ASTM D5185m	0.1	3	<1	<1
Molybdenum	ppm	ASTM D5185m	0.0	79	65	67
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	18	709	747	509
Calcium	ppm	ASTM D5185m	2936	1347	1380	1426
Phosphorus	ppm	ASTM D5185m	998	712	719	647
Zinc	ppm	ASTM D5185m	1095	866	928	837
Sulfur	ppm	ASTM D5185m	5469	2664	2824	2336
Oxidation	Abs/.1mm	*ASTM D7414	>25	27.8	28.1	26.7
Base Number (BN)	mg KOH/g	ASTM D2896	10.0	5.9	7.0	6.1
Visc @ 100°C	cSt	ASTM D445	15.2	13.2	14.2	13.5

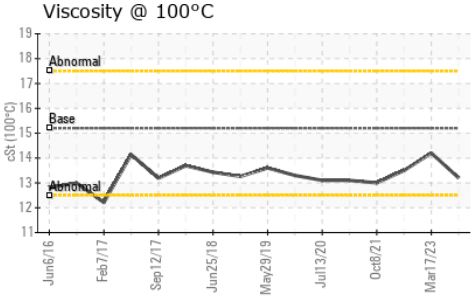
FT-IR (Direct Trend)



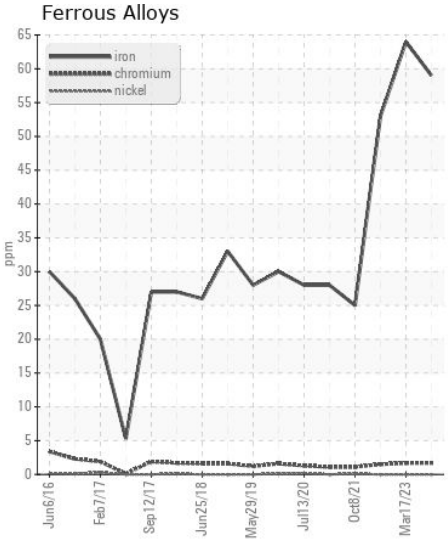
Base Number



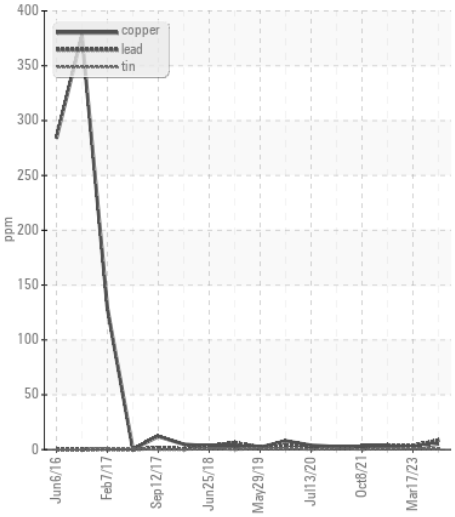
Viscosity @ 100°C



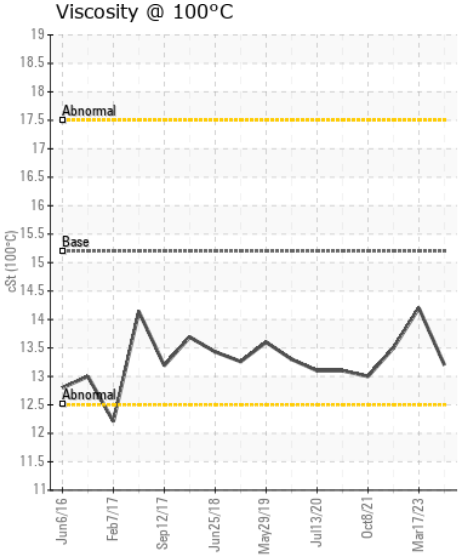
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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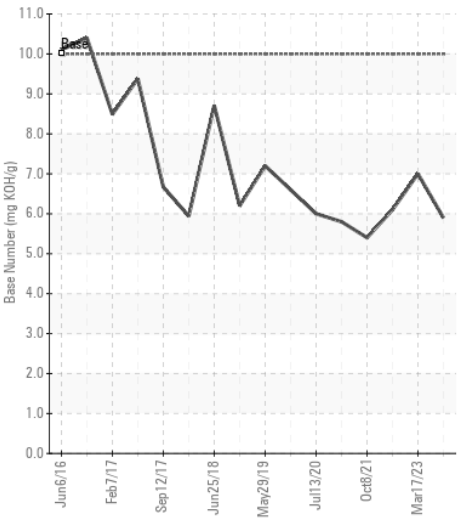

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0885557
Lab Number : 06229427
Unique Number : 11112920
Test Package : CONST (Additional Tests: TBN)

Received : 05 Jul 2024
Tested : 09 Jul 2024
Diagnosed : 09 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)

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