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

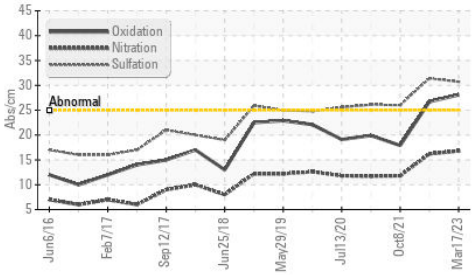
There is no indication of any contamination in the oil.

FLUID CONDITION

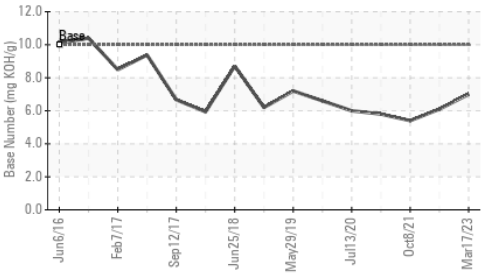
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0793084	WC0638728	WC0572539
Sample Date		Client Info		17 Mar 2023	15 Jun 2022	08 Oct 2021
Machine Age	hrs	Client Info		14792	13761	12685
Oil Age	hrs	Client Info		1031	1076	1000
Filter Age	hrs	Client Info		1031	1076	1000
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>165	64	53	25
Chromium	ppm	ASTM D5185m	>5	2	2	1
Nickel	ppm	ASTM D5185m	>4	0	0	<1
Titanium	ppm	ASTM D5185m	>2	0	0	<1
Silver	ppm	ASTM D5185m	>2	<1	0	<1
Aluminum	ppm	ASTM D5185m	>20	3	4	4
Lead	ppm	ASTM D5185m	>150	3	4	2
Copper	ppm	ASTM D5185m	>90	2	3	3
Tin	ppm	ASTM D5185m	>5	<1	<1	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	>35	8	6	7
Potassium	ppm	ASTM D5185m	>20	5	8	5
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	>7.5	2.5	2.6	1.2
Nitration	Abs/cm	*ASTM D7624	>20	16.8	16.2	11.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	30.7	31.4	26
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	5	3
Boron	ppm	ASTM D5185m	2.9	31	34	18
Barium	ppm	ASTM D5185m	0.1	<1	<1	<1
Molybdenum	ppm	ASTM D5185m	0.0	65	67	40
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	18	747	509	177
Calcium	ppm	ASTM D5185m	2936	1380	1426	2378
Phosphorus	ppm	ASTM D5185m	998	719	647	833
Zinc	ppm	ASTM D5185m	1095	928	837	957
Sulfur	ppm	ASTM D5185m	5469	2824	2336	4900
Oxidation	Abs/.1mm	*ASTM D7414	>25	28.1	26.7	17.9
Base Number (BN)	mg KOH/g	ASTM D2896	10.0	7.0	6.1	5.4
Visc @ 100°C	cSt	ASTM D445	15.2	14.2	13.5	13.0

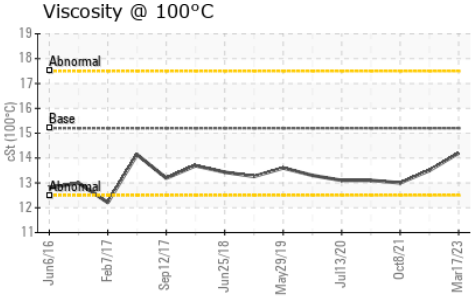
FT-IR (Direct Trend)



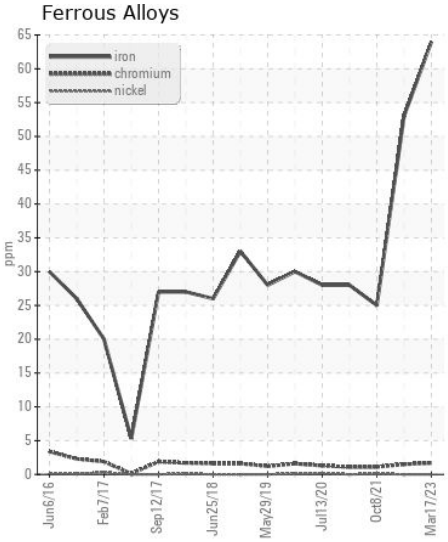
Base Number



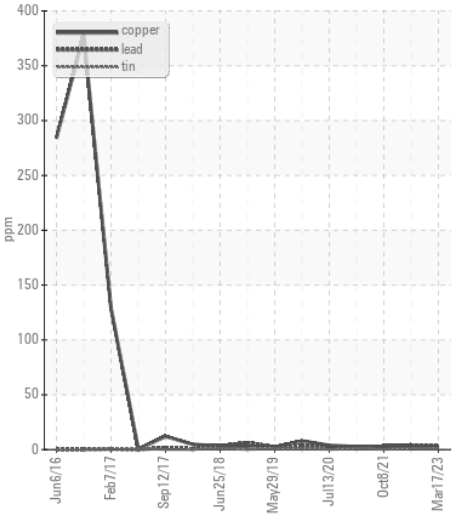
Viscosity @ 100°C



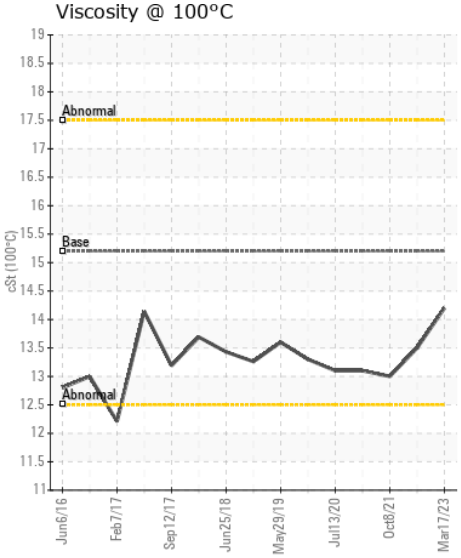
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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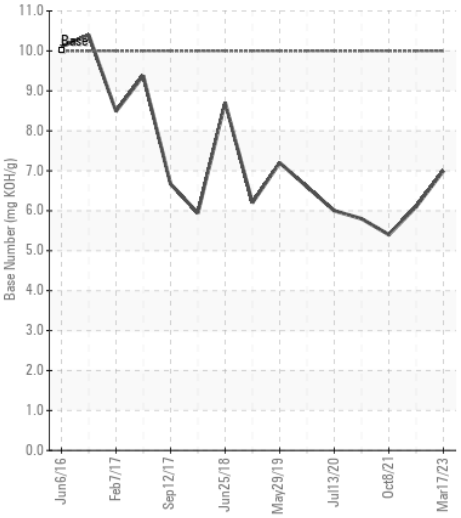

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0793084
Lab Number : 05801570
Unique Number : 10391254
Test Package : CONST (Additional Tests: TBN)

Received : 24 Mar 2023
Tested : 29 Mar 2023
Diagnosed : 29 Mar 2023 - Jonathan Hester

Certificate L2367

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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