OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
PIERCE 0552
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL (26 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

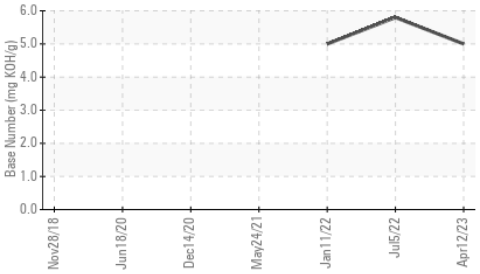
There is no indication of any contamination in the oil.

FLUID CONDITION

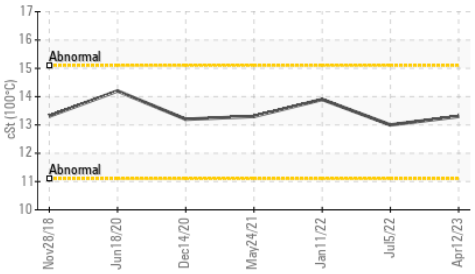
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0804011	WC0708750	WC0657415
Sample Date		Client Info		12 Apr 2023	05 Jul 2022	11 Jan 2022
Machine Age	hrs	Client Info		3401	2806	2478
Oil Age	hrs	Client Info		401	328	1075
Filter Age	hrs	Client Info		401	328	461
Oil Changed		Client Info		Changed	Not Changd	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>75	28	26	▲ 98
Chromium	ppm	ASTM D5185m	>5	<1	<1	2
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m	>2	2	11	11
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m	>15	10	15	▲ 37
Lead	ppm	ASTM D5185m	>25	0	<1	<1
Copper	ppm	ASTM D5185m	>100	3	3	14
Tin	ppm	ASTM D5185m	>4	0	<1	1
Vanadium	ppm	ASTM D5185m		0	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	18	7	14
Potassium	ppm	ASTM D5185m	>20	16	37	▲ 89
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	>6	0.7	0.7	1.7
Nitration	Abs/cm	*ASTM D7624	>20	10.5	11.3	16.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.8	24.0	35.8
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		2	9	22
Boron	ppm	ASTM D5185m		19	38	23
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		61	46	47
Manganese	ppm	ASTM D5185m		1	<1	2
Magnesium	ppm	ASTM D5185m		576	674	706
Calcium	ppm	ASTM D5185m		1577	1455	1435
Phosphorus	ppm	ASTM D5185m		893	728	715
Zinc	ppm	ASTM D5185m		1201	911	902
Sulfur	ppm	ASTM D5185m		3452	3585	2873
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.5	20.1	36.1
Base Number (BN)	mg KOH/g	ASTM D2896		5.0	5.8	5
Visc @ 100°C	cSt	ASTM D445		13.3	13.0	13.9

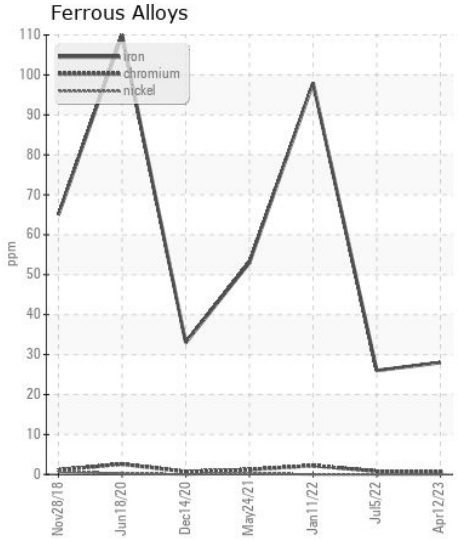
Base Number



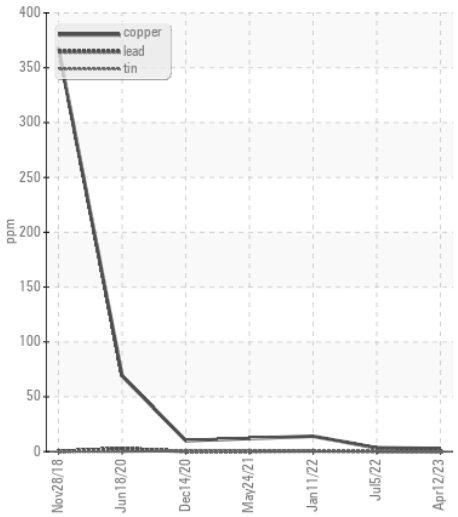
Viscosity @ 100°C



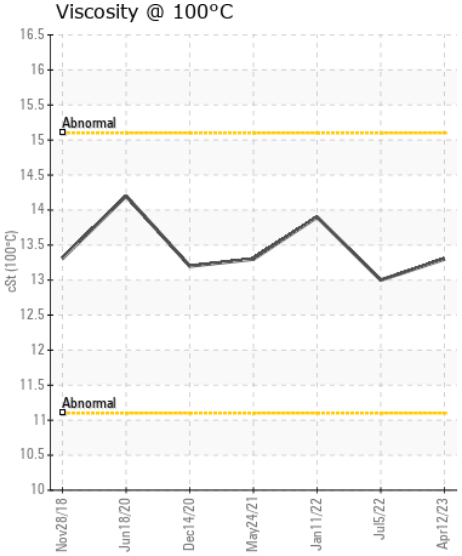
Ferrous Alloys



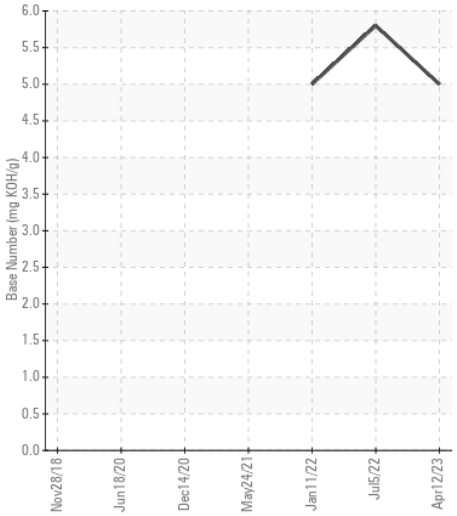
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0804011
Lab Number : 05818648
Unique Number : 10426731
Test Package : CONST (Additional Tests: TBN)

Received : 13 Apr 2023
Tested : 14 Apr 2023
Diagnosed : 14 Apr 2023 - 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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