CONST

WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
050-0026
Component
Diesel Engine
Fluid
SCHAEFFER SUPREME 7000 (1 GAL)

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

WEAR

All component wear rates are normal.

CONTAMINATION

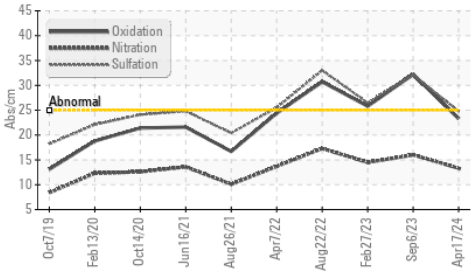
There is no indication of any contamination in the oil.

FLUID CONDITION

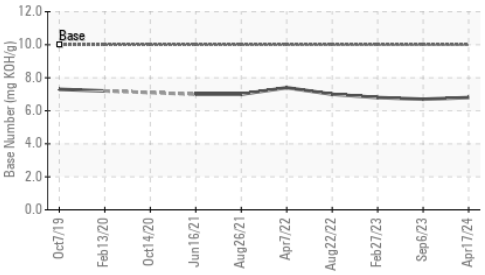
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0903848	WC0815122	WC0750628
Sample Date		Client Info		17 Apr 2024	06 Sep 2023	27 Feb 2023
Machine Age	hrs	Client Info		1808	1808	1511
Oil Age	hrs	Client Info		1808	0	0
Filter Age	hrs	Client Info		250	0	0
Oil Changed		Client Info		Not Changd	Changed	Changed
Filter Changed		Client Info		Not Changd	Changed	Changed
Sample Status				NORMAL	ABNORMAL	NORMAL
Iron	ppm	ASTM D5185m	>100	81	▲ 151	78
Chromium	ppm	ASTM D5185m	>20	7	9	7
Nickel	ppm	ASTM D5185m	>4	0	<1	1
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	8	12	11
Lead	ppm	ASTM D5185m	>40	2	5	2
Copper	ppm	ASTM D5185m	>330	1	3	2
Tin	ppm	ASTM D5185m	>15	0	<1	1
Vanadium	ppm	ASTM D5185m		<1	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	13	20	14
Potassium	ppm	ASTM D5185m	>20	<1	2	3
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	0.5	1.1	0.3
Nitration	Abs/cm	*ASTM D7624	>20	13.3	16.0	14.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.8	32.1	26.5
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		3	5	<1
Boron	ppm	ASTM D5185m		74	75	68
Barium	ppm	ASTM D5185m		<1	0	2
Molybdenum	ppm	ASTM D5185m	50	81	88	90
Manganese	ppm	ASTM D5185m		<1	2	<1
Magnesium	ppm	ASTM D5185m	1000	16	24	14
Calcium	ppm	ASTM D5185m	1400	2334	2777	2654
Phosphorus	ppm	ASTM D5185m	985	1056	1173	1072
Zinc	ppm	ASTM D5185m	1060	1379	1574	1351
Sulfur	ppm	ASTM D5185m	4000	5670	5897	4420
Oxidation	Abs/.1mm	*ASTM D7414	>25	23.3	32.2	25.8
Base Number (BN)	mg KOH/g	ASTM D2896	10	6.8	6.7	6.8
Visc @ 100°C	cSt	ASTM D445	15	16.1	▲ 18.5	17.0

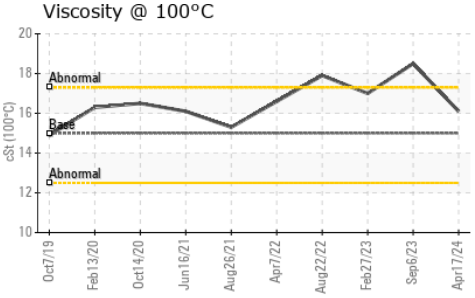
FT-IR (Direct Trend)



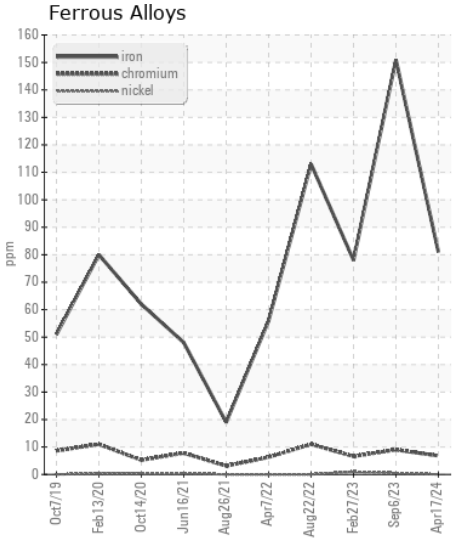
Base Number



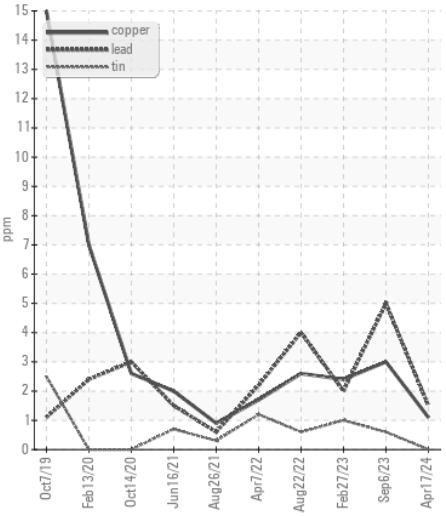
Viscosity @ 100°C



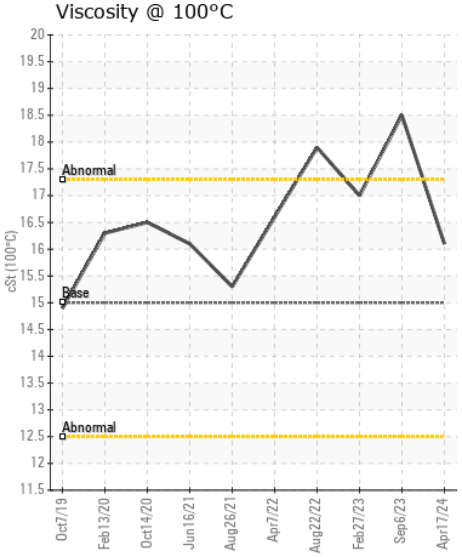
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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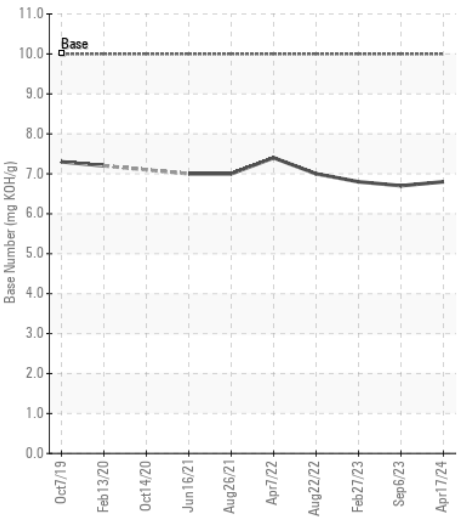

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0903848 **Received** : 23 Apr 2024
Lab Number : 06157498 **Tested** : 24 Apr 2024
Unique Number : 10992921 **Diagnosed** : 24 Apr 2024 - Wes Davis
Test Package : CONST (Additional Tests: TBN)

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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