



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
GENERATOR 1
 Component
Genset
 Fluid
SAE 40W (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0746147	WC0746093	WC0746157
Sample Date		Client Info		24 Apr 2024	05 Mar 2024	16 Nov 2023
Machine Age	hrs	Client Info		17608	17184	16623
Oil Age	hrs	Client Info		424	500	500
Filter Age	hrs	Client Info		424	500	500
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	5	8	6
Chromium	ppm	ASTM D5185m	>4	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	<1	0
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>5	<1	0	0
Aluminum	ppm	ASTM D5185m	>12	2	5	2
Lead	ppm	ASTM D5185m	>17	3	1	<1
Copper	ppm	ASTM D5185m	>70	2	2	2
Tin	ppm	ASTM D5185m	>15	2	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

CONTAMINATION

There is no indication of any contamination in the oil.

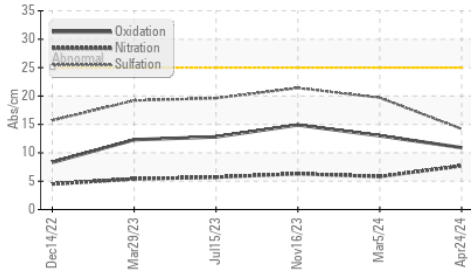
Silicon	ppm	ASTM D5185m	>25	10	11	7
Potassium	ppm	ASTM D5185m	>20	3	3	<1
Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844		0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	7.7	5.8	6.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	14.2	19.7	21.4
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	>0.1	NEG	NEG	NEG

FLUID CONDITION

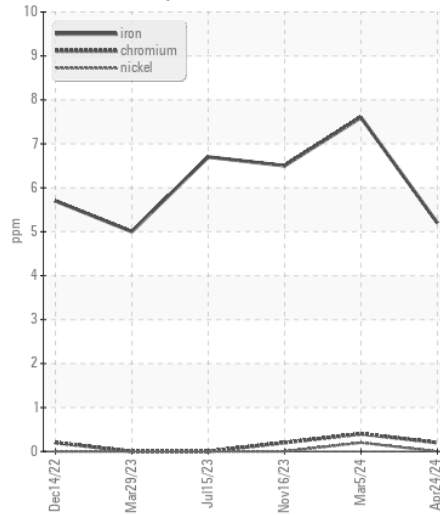
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		22	3	<1
Boron	ppm	ASTM D5185m		312	391	301
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		59	143	101
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		218	1373	779
Calcium	ppm	ASTM D5185m		2146	1743	1390
Phosphorus	ppm	ASTM D5185m		727	1324	727
Zinc	ppm	ASTM D5185m		791	1510	922
Sulfur	ppm	ASTM D5185m		2940	4659	2548
Oxidation	Abs/.1mm	*ASTM D7414	>25	10.9	13.0	14.9
Base Number (BN)	mg KOH/g	ASTM D2896		12.4	8.6	9.1
Visc @ 100°C	cSt	ASTM D445	14.5	16.6	12.7	12.5

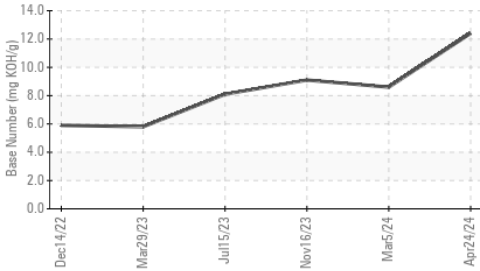
FT-IR (Direct Trend)



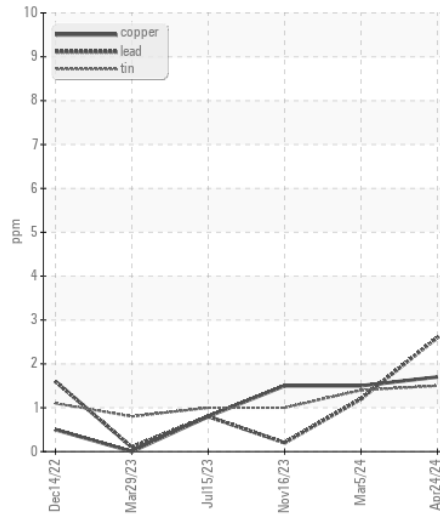
Ferrous Alloys



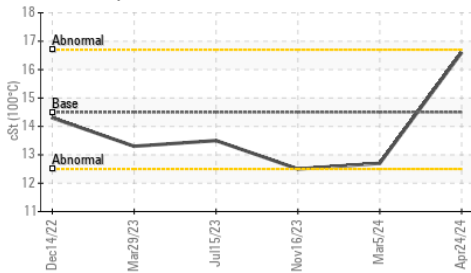
Base Number



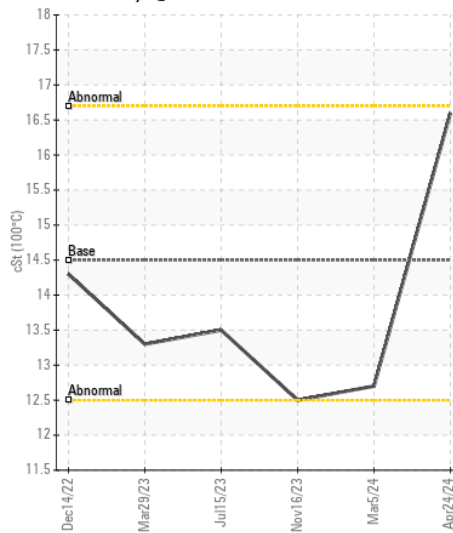
Non-ferrous Metals



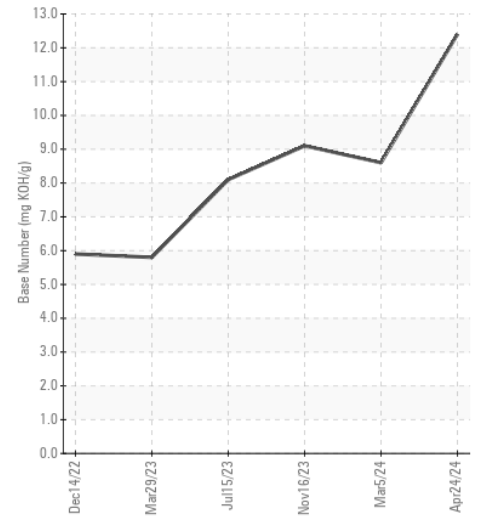
Viscosity @ 100°C



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0746147
Lab Number : 06194752
Unique Number : 11056875
Test Package : FLEET
Received : 29 May 2024
Tested : 30 May 2024
Diagnosed : 31 May 2024 - Sean Felton

ASSOCIATED GRAIN TERMINALS
 13723 HWY 15
 BRAITHWAITE, LA
 US 70040
 Contact: Service Manager

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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F: