



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION

Machine Id
GENERATOR 2
 Component
Genset
 Fluid
DIESEL ENGINE OIL SAE 15W40 (--- GAL)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0746146	WC0746090	WC0746161
Sample Date		Client Info		21 May 2024	05 Mar 2024	13 Jan 2024
Machine Age	hrs	Client Info		4024	3544	2897
Oil Age	hrs	Client Info		480	500	500
Filter Age	hrs	Client Info		480	500	500
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ATTENTION	NORMAL	ATTENTION

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	9	34	9
Chromium	ppm	ASTM D5185m	>4	<1	1	0
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>5	<1	0	0
Aluminum	ppm	ASTM D5185m	>12	3	2	2
Lead	ppm	ASTM D5185m	>17	12	2	4
Copper	ppm	ASTM D5185m	>70	<1	1	<1
Tin	ppm	ASTM D5185m	>15	<1	5	0
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

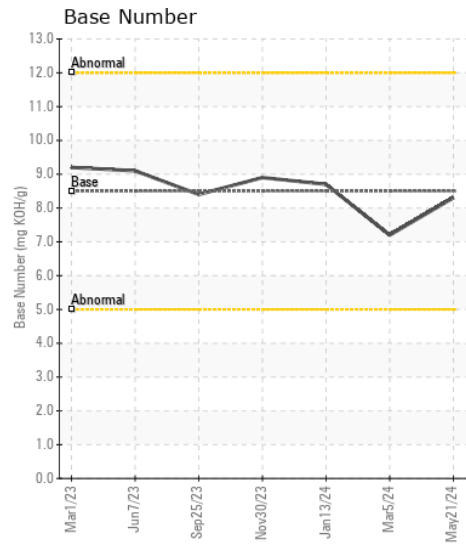
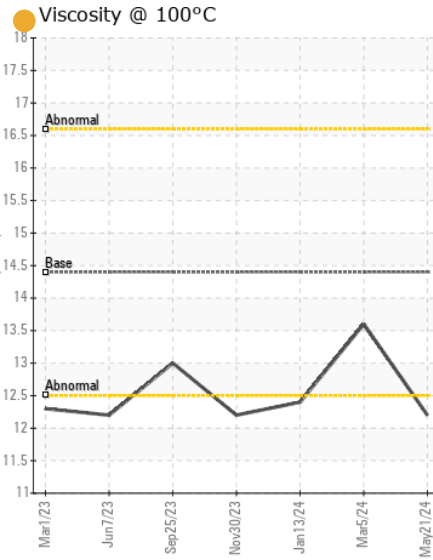
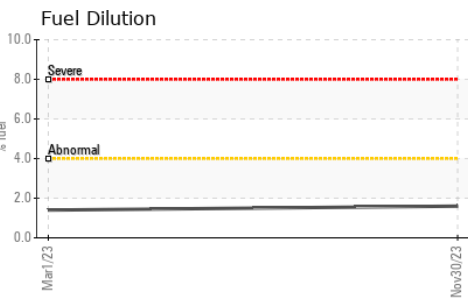
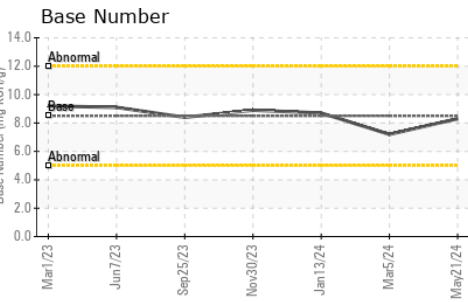
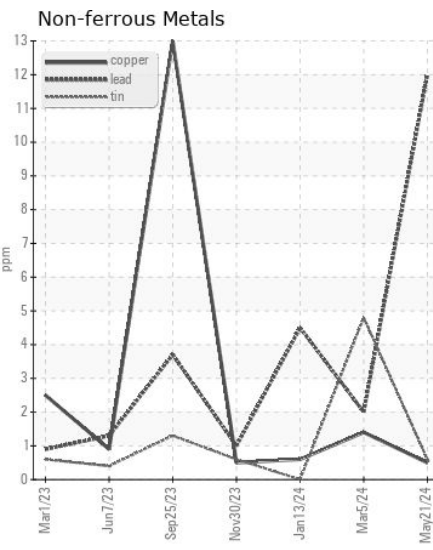
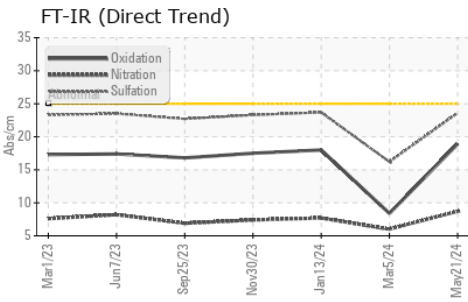
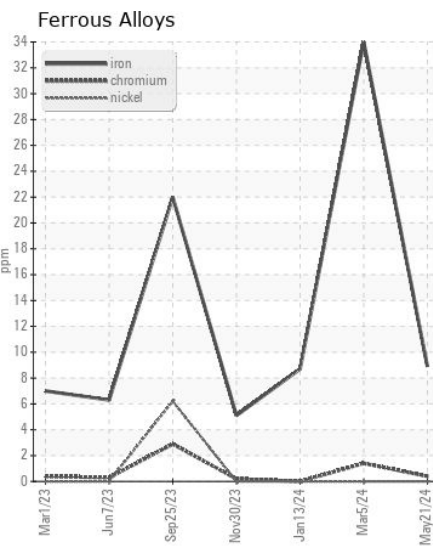
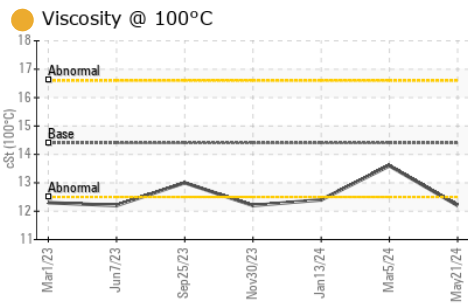
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	7	6	5
Potassium	ppm	ASTM D5185m	>20	1	1	0
Fuel	%	ASTM D3524	>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	0.9	0.1
Nitration	Abs/cm	*ASTM D7624	>20	8.7	6.0	7.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.6	16.2	23.7
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 oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Sodium	ppm	ASTM D5185m	>158	3	16	2
Boron	ppm	ASTM D5185m	250	276	88	345
Barium	ppm	ASTM D5185m	10	<1	0	0
Molybdenum	ppm	ASTM D5185m	100	120	46	123
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	450	607	1284	648
Calcium	ppm	ASTM D5185m	3000	1652	560	1614
Phosphorus	ppm	ASTM D5185m	1150	736	1031	716
Zinc	ppm	ASTM D5185m	1350	810	1210	832
Sulfur	ppm	ASTM D5185m	4250	2702	3312	2460
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.9	8.4	18.0
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.3	7.2	8.7
Visc @ 100°C	cSt	ASTM D445	14.4	12.2	13.6	12.4



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0746146 **Received** : 29 May 2024
Lab Number : 06194751 **Tested** : 31 May 2024
Unique Number : 11056874 **Diagnosed** : 31 May 2024 - Jonathan Hester
Test Package : FLEET (Additional Tests: FuelDilution, PercentFuel)

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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