



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

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

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0746153	WC0746146	WC0746090
Sample Date		Client Info		18 Jun 2024	21 May 2024	05 Mar 2024
Machine Age	hrs	Client Info		4199	4024	3544
Oil Age	hrs	Client Info		150	480	500
Filter Age	hrs	Client Info		150	480	500
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	ATTENTION	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	3	9	34
Chromium	ppm	ASTM D5185m	>4	0	<1	1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>5	0	<1	0
Aluminum	ppm	ASTM D5185m	>12	2	3	2
Lead	ppm	ASTM D5185m	>17	<1	12	2
Copper	ppm	ASTM D5185m	>70	<1	<1	1
Tin	ppm	ASTM D5185m	>15	0	<1	5
Vanadium	ppm	ASTM D5185m		<1	<1	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.

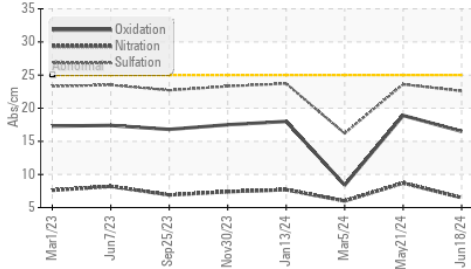
Silicon	ppm	ASTM D5185m	>25	4	7	6
Potassium	ppm	ASTM D5185m	>20	0	1	1
Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844		0.1	0.1	0.9
Nitration	Abs/cm	*ASTM D7624	>20	6.5	8.7	6.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.6	23.6	16.2
Silt	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

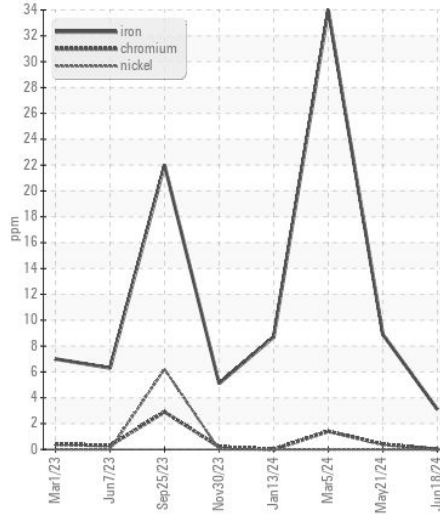
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m	>158	1	3	16
Boron	ppm	ASTM D5185m	250	335	276	88
Barium	ppm	ASTM D5185m	10	0	<1	0
Molybdenum	ppm	ASTM D5185m	100	115	120	46
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	450	617	607	1284
Calcium	ppm	ASTM D5185m	3000	1663	1652	560
Phosphorus	ppm	ASTM D5185m	1150	825	736	1031
Zinc	ppm	ASTM D5185m	1350	994	810	1210
Sulfur	ppm	ASTM D5185m	4250	3255	2702	3312
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.5	18.9	8.4
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.6	8.3	7.2
Visc @ 100°C	cSt	ASTM D445	14.4	12.6	12.2	13.6

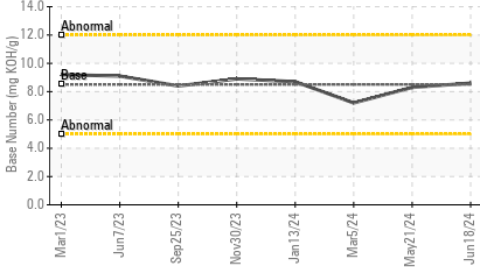
FT-IR (Direct Trend)



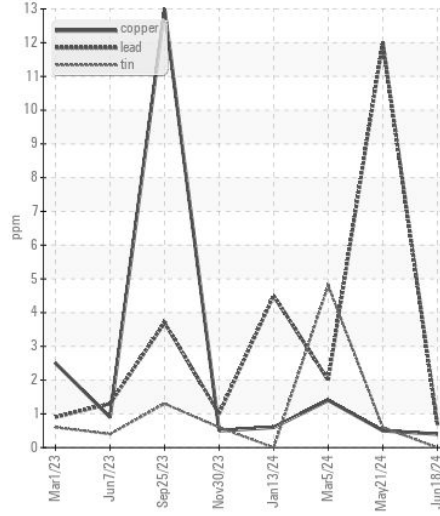
Ferrous Alloys



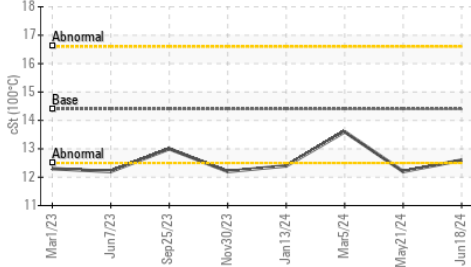
Base Number



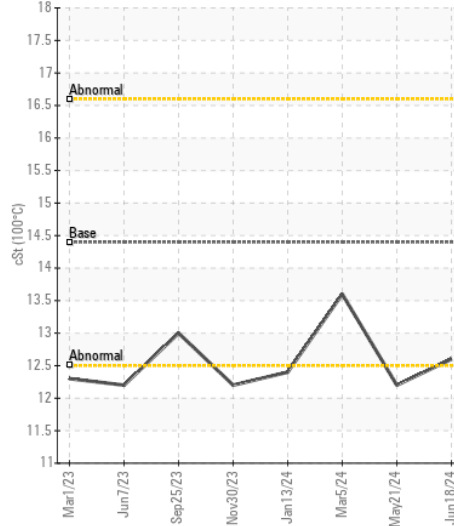
Non-ferrous Metals



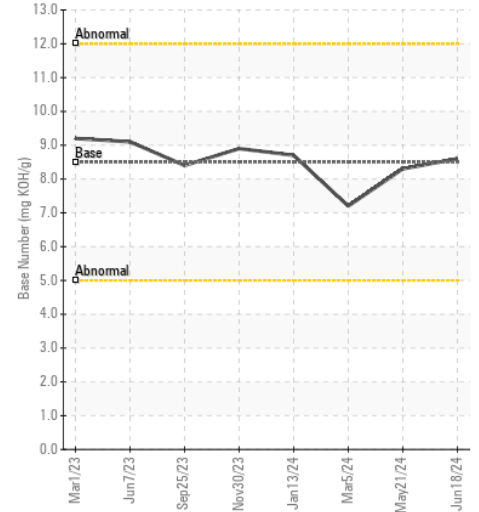
Viscosity @ 100°C



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0746153
Lab Number : 06219115
Unique Number : 11097312
Test Package : FLEET
Received : 24 Jun 2024
Tested : 25 Jun 2024
Diagnosed : 25 Jun 2024 - Wes Davis

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)

T:
F: