



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
GEN 2 - SHANNON MAIN
 Component
Diesel Engine
 Fluid
SHELL ROTELLA T 15W40 (13 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0872211	LF509589	LF1503533
Sample Date		Client Info		29 Dec 2023	20 Dec 2018	18 Mar 2018
Machine Age	hrs	Client Info		20	0	0
Oil Age	hrs	Client Info		20	16	14
Filter Age	hrs	Client Info		20	0	0
Oil Changed		Client Info		Changed	Changed	N/A
Filter Changed		Client Info		Changed	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185m	>90	1	2	2
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	0	<1
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	1	<1	<1
Lead	ppm	ASTM D5185m	>40	0	<1	<1
Copper	ppm	ASTM D5185m	>330	0	<1	<1
Tin	ppm	ASTM D5185m	>15	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

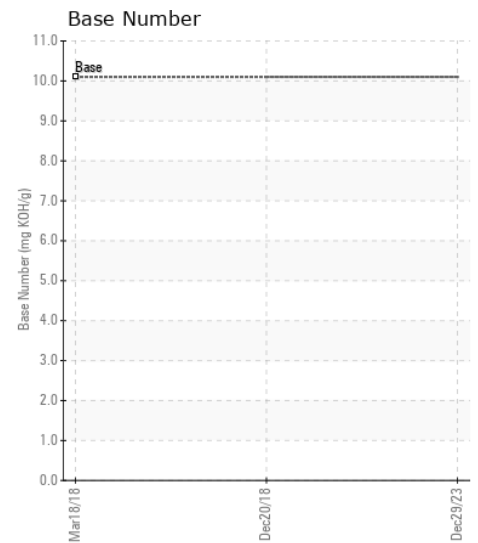
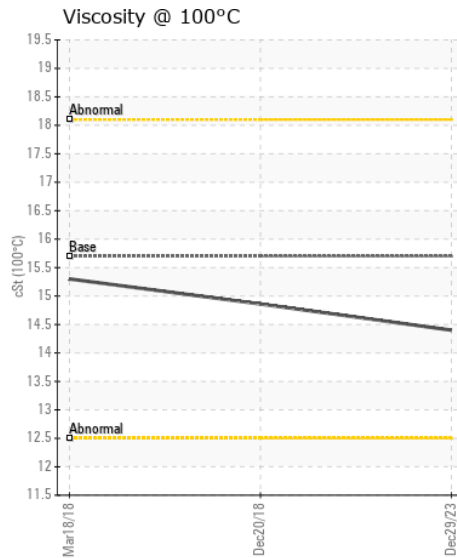
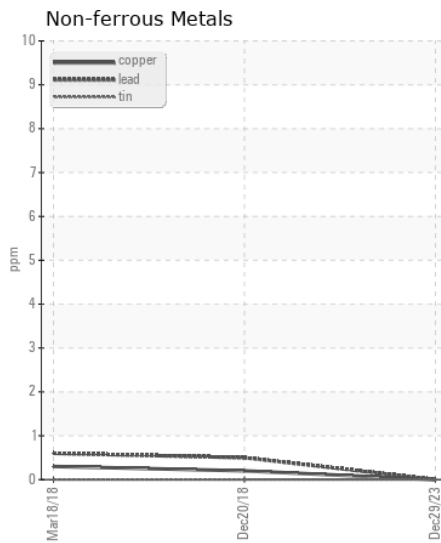
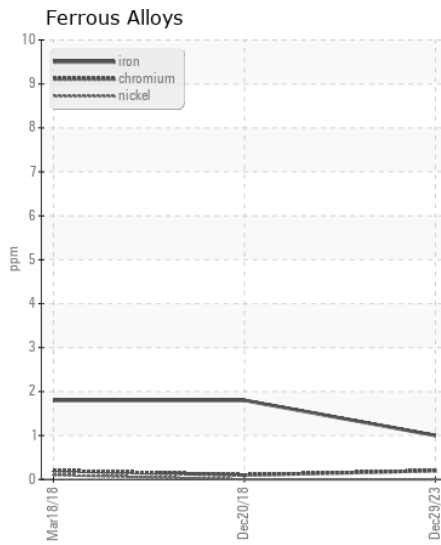
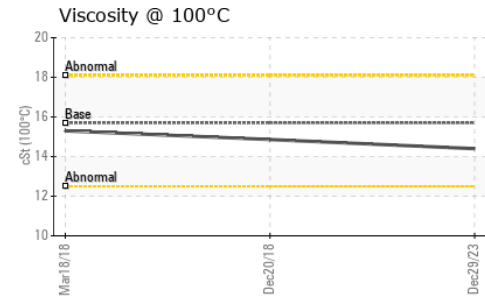
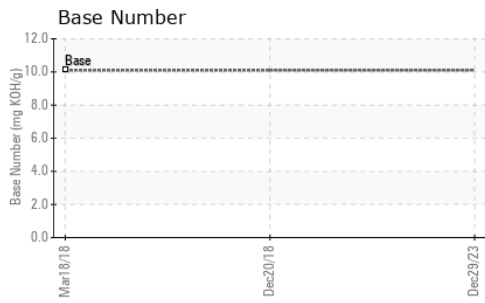
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	3	1	3
Potassium	ppm	ASTM D5185m	>20	9	7	6
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>6	0.1	0.1	0
Nitration	Abs/cm	*ASTM D7624	>20	5.5	5.8	5.
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.9	20.5	19.
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

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		0	2	2
Boron	ppm	ASTM D5185m	316	200	172	137
Barium	ppm	ASTM D5185m	0.0	8	0	0
Molybdenum	ppm	ASTM D5185m	1.2	0	0	0
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m	24	11	9	9
Calcium	ppm	ASTM D5185m	2292	1896	2077	2246
Phosphorus	ppm	ASTM D5185m	1064	830	935	944
Zinc	ppm	ASTM D5185m	1160	1036	994	971
Sulfur	ppm	ASTM D5185m	4996	3345	3569	3478
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.8	17	15.
Base Number (BN)	mg KOH/g	ASTM D2896	10.1	8.7	---	---
Visc @ 100°C	cSt	ASTM D445	15.7	14.4	14.86	15.3



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0872211
Lab Number : 06088518
Unique Number : 10875963
Test Package : FLEET

Received : 14 Feb 2024
Tested : 15 Feb 2024
Diagnosed : 15 Feb 2024 - Wes Davis

STANDBY POWER SUPPORT SYSTEMS
 6100 COLORADO AVE
 ODESSA, TX
 US 79760

Contact: SANTANA SARABIA
 standbypower7114@yahoo.com

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: (432)362-1051
 F: (432)362-1052