

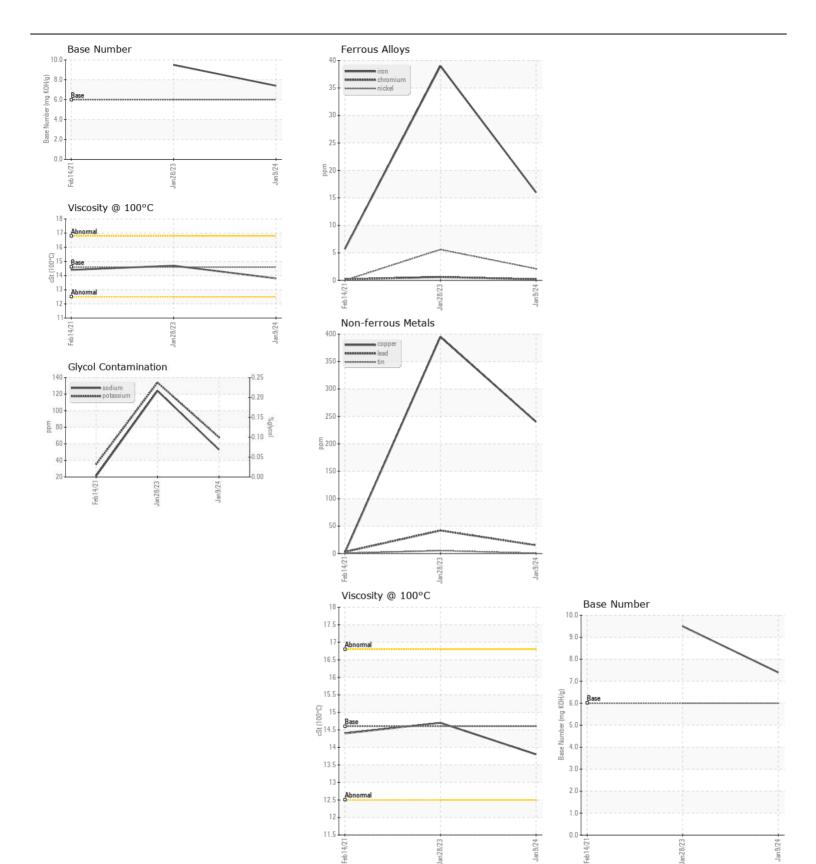
WEAR CONTAMINATION **FLUID CONDITION**

NORMAL ATTENTION NORMAL

0969147077 - ST JOHNS GEN 2

Component Diesel Engine

SHELL ROTELLA T 40 (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
07 165 1 1 1 1 1 1 1 1 1 1 1 1	Sample Number		Client Info		WC0872220	LF0001297	LF0000297
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Date		Client Info		09 Jan 2024	28 Jan 2023	14 Feb 2021
	Machine Age	hrs	Client Info		7	12	13
	Oil Age	hrs	Client Info		7	12	0
	Filter Age	hrs	Client Info		7	12	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	N/A
	Sample Status				ATTENTION	ABNORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	16	39	6
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
	Nickel	ppm	ASTM D5185m	>4	2	6	0
	Titanium	ppm	ASTM D5185m		0	<1	0
	Silver	ppm	ASTM D5185m	>3	0	2	<1
	Aluminum	ppm	ASTM D5185m	>20	1	1	<1
	Lead	ppm	ASTM D5185m		15	42	3
	Copper	ppm	ASTM D5185m	>330	240	395	2
	Tin	ppm	ASTM D5185m	>15	<1	5	<1
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	8	18	7
	Potassium	ppm	ASTM D5185m	>20	▲ 68	<u> </u>	35
Sodium and/or potassium levels remain high. Test for glycol is negative.	Fuel		WC Method	>5	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol	%	*ASTM D2982		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0	0.1	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	3.1	3.6	3.4
	Sulfation	Abs/.1mm	*ASTM D7415	>30	12.6	14.9	16.8
	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	NORMI
	Odor	scalar	*Visual	NORML	NORML	NORML	NORMI
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		53	<u> </u>	21
The DNI would be disease the Alberta is a stable of the Both was a stable of the	Boron	ppm	ASTM D5185m	0	48	130	412
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.	Barium	ppm	ASTM D5185m		9	0	0
	Molybdenum	ppm	ASTM D5185m	0	34	39	44
	Manganese	ppm	ASTM D5185m		0	1	<1
	Magnesium	ppm	ASTM D5185m	432	443	17	15
	Calcium	ppm	ASTM D5185m	1121	1107	2666	3432
	Phosphorus	ppm	ASTM D5185m	996	709	853	974
	Zinc	ppm	ASTM D5185m	881	940	1125	1110
	Sulfur	ppm	ASTM D5185m		2578	3288	3087
	Oxidation	Abs/.1mm	*ASTM D7414	>25	5.7	6.8	7.6
	Base Number (BN)	mg KOH/g	ASTM D2896	6.0	7.4	9.5	
	Visc @ 100°C	cSt	ASTM D445	110	13.8	14.7	14.4







Laboratory Sample No.

Lab Number : 06088519 Unique Number: 10875964

Test Package : FLEET (Additional Tests: Glycol)

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0872220 Received : 14 Feb 2024 : 15 Feb 2024 Tested

Diagnosed

: 15 Feb 2024 - Jonathan Hester

STANDBY POWER SUPPORT SYSTEMS 6100 COLORADO AVE

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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)