WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

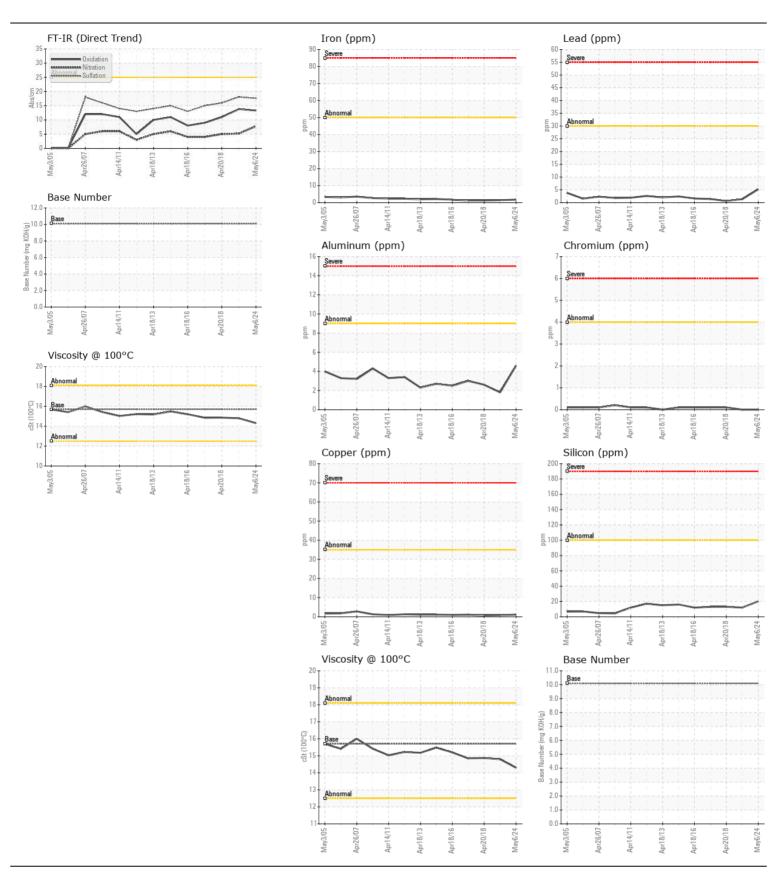
Machine Id

GENERAC NS-WILLARD DAIRY

Natural Gas Engine

SHELL BOTELLA T 15W40 (4 OTS)

		UOM	Method	Limit/Abn	Current	History1	History2
RECOMMENDATION Resample at the next service interval to monitor.	Test Sample Number	OOW	Client Info	LIIIIII/ADII	WC0887874	WC0329405	WCM138431
	Sample Date		Client Info		06 May 2024	10 Apr 2019	20 Apr 201
	Machine Age	hrs	Client Info		348	0	259
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed	0	Client Info		Changed	Changed	Change
	Filter Changed		Client Info		Changed	Changed	Change
	Sample Status		0.10111		NORMAL	NORMAL	NORMA
WEAR	Iron	ppm	ASTM D5185m		2	1	1
Metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185m		0	0	<1
	Nickel	ppm	ASTM D5185m	>2	0	0	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m		<1	0	0
	Aluminum	ppm	ASTM D5185m		5	2	3
	Lead	ppm	ASTM D5185m		5	1	<1
	Copper	ppm	ASTM D5185m	>35	1	<1	<1
	Tin	ppm	ASTM D5185m	>4	0	0	0
	Vanadium	ppm	ASTM D5185m		<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NON
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NON
CONTAMINATION	Silicon	ppm	ASTM D5185m	>+100	20	12	13
	Potassium	ppm	ASTM D5185m		1	2	10
There is no indication of any contamination in the oil.	Water	PP	WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0	0.1	0
	Nitration	Abs/cm		>20	7.8	5.2	5.
	Sulfation	Abs/.1mm	*ASTM D7415		17.6	18.1	16.
	Silt	scalar	*Visual	NONE	NONE	NONE	NON
	Debris	scalar	*Visual	NONE	NONE	NONE	NON
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NON
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORI
	Odor	scalar	*Visual	NORML	NORML	NORML	NOR
	Emulsified Water		*Visual	>0.1	NEG	NEG	NEG
THUR CONDITION	0 "						
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	010	3	2	2
	Boron	ppm	ASTM D5185m		75	15	24
	Barium	ppm	ASTM D5185m		<1	0	0
	Molybdenum	ppm	ASTM D5185m	1.2	92	58	58
	Manganese	ppm	ASTM D5185m	0.4	<1	<1	<1
	Magnesium	ppm	ASTM D5185m		156	892	849
	Calcium	ppm	ASTM D5185m		2524	1148	1136
	Phosphorus	ppm	ASTM D5185m		1159	915	889
	Zinc	ppm		1160	1428	1158	1051
	Sulfur	ppm	ASTM D5185m		4672	2695	2537
	Oxidation	Abs/.1mm	*ASTM D7414	>25	13.3	13.8	11.
	Base Number (BN) Visc @ 100°C	mg KOH/g cSt	ASTM D2896 ASTM D445		6.8 14.3	 14.8	14.87







Laboratory Sample No.

Lab Number : 06188862 Unique Number : 11045614

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0887874

Received **Tested** Diagnosed

: 23 May 2024 : 24 May 2024

: 24 May 2024 - Wes Davis

PIEDMONT GENERATOR 7560 NC HWY 22 NORTH

CLIMAX, NC US 27233

Test Package : MOB 1 (Additional Tests: TBN) Certificate L2367 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.

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Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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