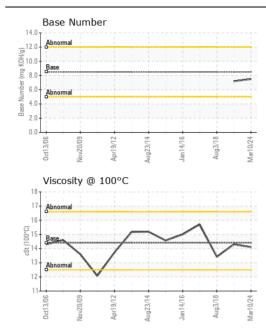
WEAR CONTAMINATION **FLUID CONDITION**

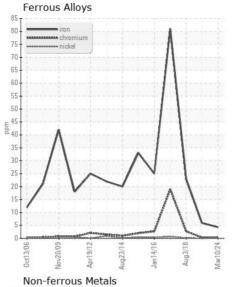
NORMAL NORMAL NORMAL

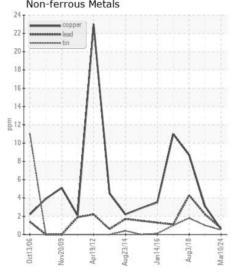
INGERSOLL RAND SD77DX 2001 (S/N 192709)

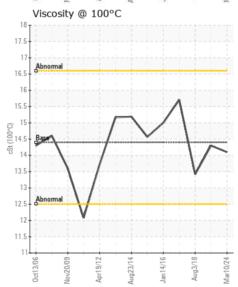
Component
Diesel Engine

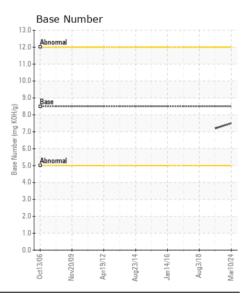
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
TECOMMENDATION	Sample Number	OOW	Client Info	LIIIIU/ADII	CL0005086	CL0004577	CLMC145748
Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.	Sample Date		Client Info		10 Mar 2024	07 Aug 2023	03 Aug 201
	Machine Age	hrs	Client Info		265	265	1903
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	ABNORMA
WEAR	Iron	ppm	ASTM D5185m	\100	4	6	23
WEAT	Chromium	ppm	ASTM D5185m		<1	<1	3
Metal levels are typical for a new component breaking in.	Nickel	ppm		>4	<1	0	<1
	Titanium	ppm	ASTM D5185m	7	0	<1	<1
	Silver	ppm	ASTM D5185m	>3	0	<1	<1
	Aluminum	ppm	ASTM D5185m		4	2	4
	Lead	ppm	ASTM D5185m		<1	2	4
	Copper	ppm	ASTM D5185m		<1	3	9
	Tin	ppm	ASTM D5185m		<1	1	2
	Vanadium	ppm	ASTM D5185m		0	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	nnm	ASTM D5185m	\25	5	5	<u>^</u> 61
CONTAININATION	Potassium	ppm	ASTM D5185m		1	2	5
There is no indication of any contamination in the oil.	Fuel	ррпп	WC Method	>5	<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	7 U.L	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.2	0.2	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	9.0	9.3	6.7
	Sulfation	Abs/.1mm	*ASTM D7415		18.5	18.7	20.3
	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	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>158	2	3	10
ESIB SSRBITION	Boron	ppm	ASTM D5185m		<u>-</u> 65	64	121
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	1	3
	Molybdenum	ppm	ASTM D5185m		87	92	56
	Manganese	ppm	ASTM D5185m		0	<1	4
	Magnesium	ppm	ASTM D5185m	450	65	108	364
	Calcium	ppm	ASTM D5185m		2231	2190	1652
	Phosphorus	ppm	ASTM D5185m		1085	1067	920
	Zinc	ppm	ASTM D5185m		1239	1310	1058
	Sulfur	ppm	ASTM D5185m	4250	4078	4405	4164
	Oxidation	Abs/.1mm	*ASTM D7414		14.9	15.2	15.7
	Base Number (BN)	mg KOH/g	ASTM D2896	8.5	7.5	7.2	













Certificate L2367

Laboratory Sample No.

Lab Number : 06121427

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : CL0005086

Received Unique Number : 10930260 Test Package : CONST (Additional Tests: TBN)

: 18 Mar 2024 **Tested** Diagnosed

: 19 Mar 2024

: 19 Mar 2024 - Wes Davis

CHARLOTTE, NC US 28270 Contact: BEN MILKE

PURCELL CONSTRUCTION

ben@purcellconst.com T:

3100 HIGH RIDGE RD

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)

F: