

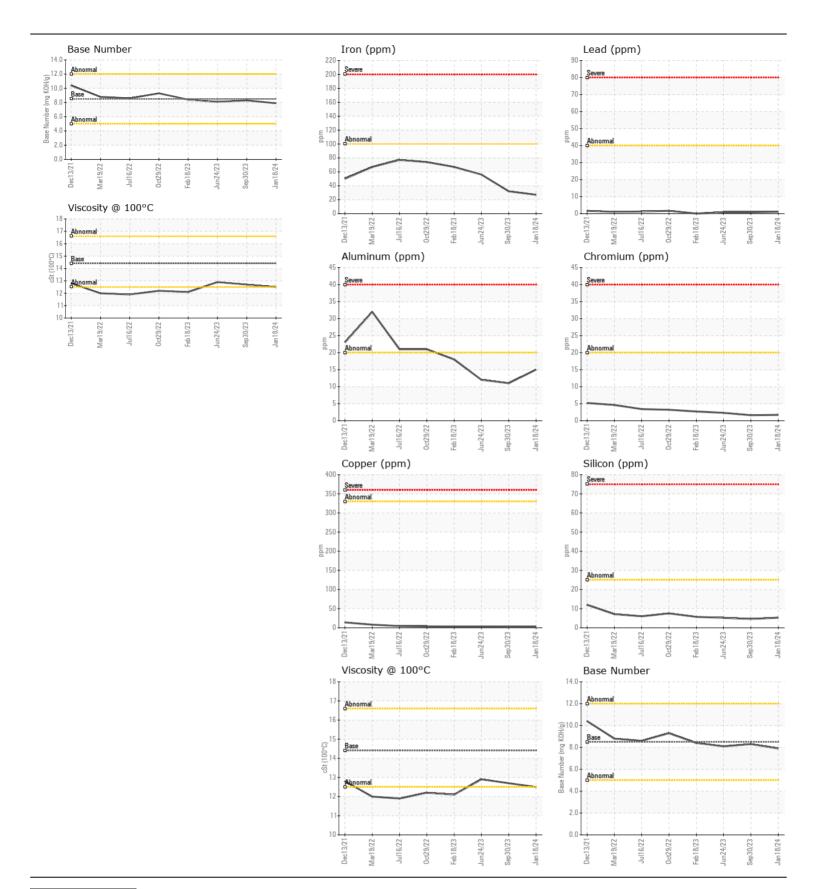
WEAR CONTAMINATION **FLUID CONDITION** **NORMAL NORMAL NORMAL**

Machine Id

619

Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. Please specify the component make and model with your next sample.	Sample Number		Client Info		WC0745780		WC0745773
	Sample Date		Client Info		18 Jan 2024	30 Sep 2023	24 Jun 2023
	Machine Age	hrs	Client Info		4706	4086	3561
	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 Sample Status		Client Info		Changed NORMAL	Changed NORMAL	Changed NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	27	32	56
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	2	2	2
	Nickel	ppm	ASTM D5185m	>4	2	<1	<1
	Titanium	ppm	ASTM D5185m		<1	<1	<1
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	15	11	12
	Lead	ppm	ASTM D5185m	>40	1	<1	<1
	Copper	ppm	ASTM D5185m	>330	3	2	3
	Tin	ppm	ASTM D5185m	>15	2	1	2
	Vanadium	ppm	ASTM D5185m		0	<1	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	5	5	5
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	10	10	11
	Fuel		WC Method	>5	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.5	0.5	0.5
	Nitration	Abs/cm	*ASTM D7624	>20	9.7	9.6	11.4
	Sulfation	Abs/.1mm	*ASTM D7415	>30	19.5	19.7	21.5
	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		0	2	2
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m	250	10	5	4
	Barium	ppm	ASTM D5185m	10	14	0	0
	Molybdenum	ppm	ASTM D5185m	100	72	69	71
	Manganese	ppm	ASTM D5185m		<1	<1	1
	Magnesium	ppm	ASTM D5185m	450	815	950	994
	Calcium	ppm	ASTM D5185m	3000	1205	1216	1242
	Phosphorus	ppm	ASTM D5185m	1150	999	1047	1072
	Zinc	ppm	ASTM D5185m	1350	1180	1291	1339
	Sulfur	ppm	ASTM D5185m	4250	3316	2918	2908
	Oxidation	Abs/.1mm	*ASTM D7414	>25	15.6	16.0	18.0
	Base Number (BN)	mg KOH/g	ASTM D2896	8.5	7.9	8.3	8.1
	Visc @ 100°C	cSt	ASTM D445	14.4	12.5	12.7	12.9







Certificate L2367

Laboratory

Sample No.

Lab Number : 06086613

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0745780

Received Unique Number : 10874058

: 12 Feb 2024 **Tested** Diagnosed Test Package: MOBCE (Additional Tests: TBN)

: 13 Feb 2024 : 13 Feb 2024 - Wes Davis

US 47710 Contact: DON MACLEOD dmacleod@fligeltaub.com T: (812)423-6219

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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)