



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
CUMMINS MARC 83 MAIN
 Component
Diesel Engine
 Fluid
DURALENE Dura-Max 15W40 (--- QTS)

RECOMMENDATION

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		DC0036721	DC0035744	DC0028984
Sample Date		Client Info		13 Jul 2024	23 Apr 2024	11 Jan 2024
Machine Age	hrs	Client Info		0	0	0
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	N/A	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

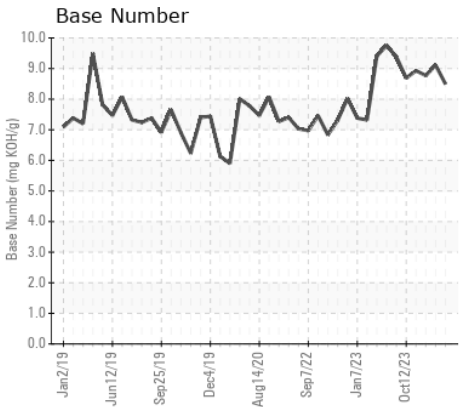
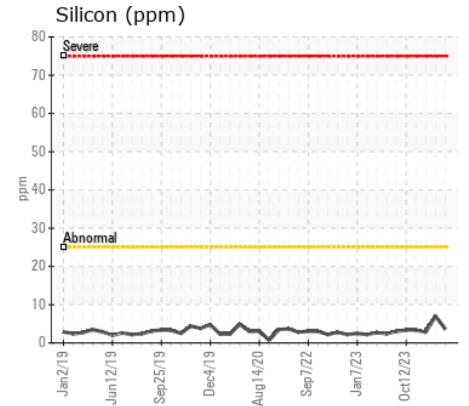
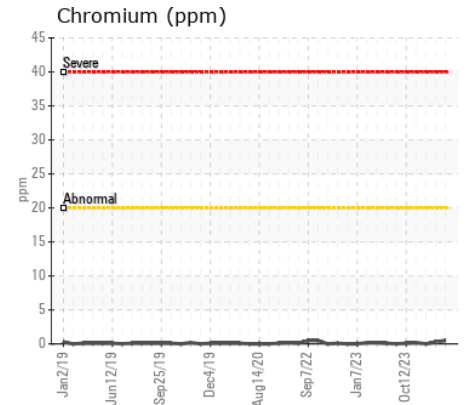
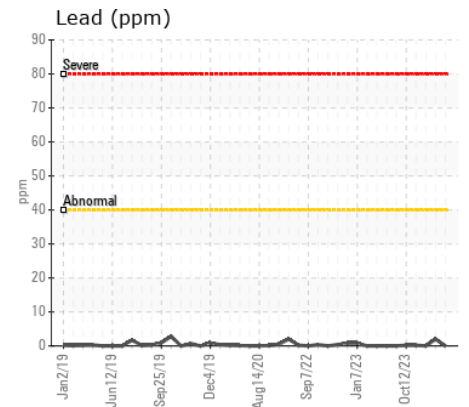
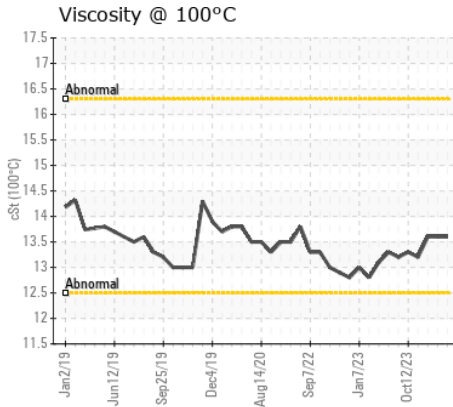
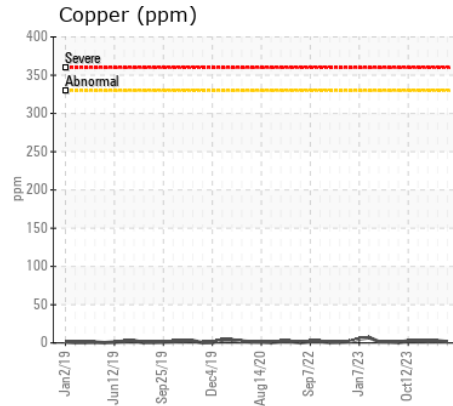
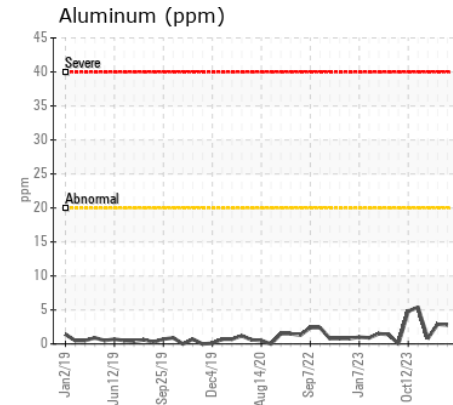
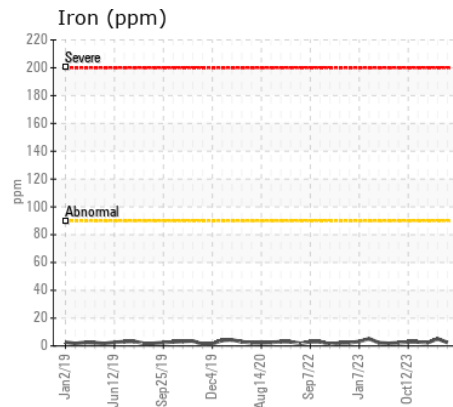
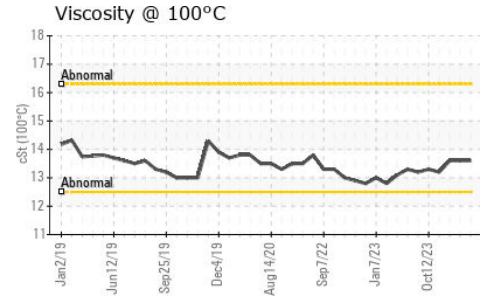
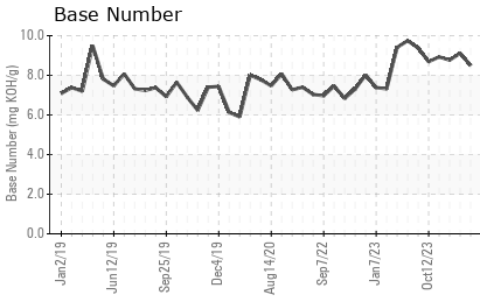
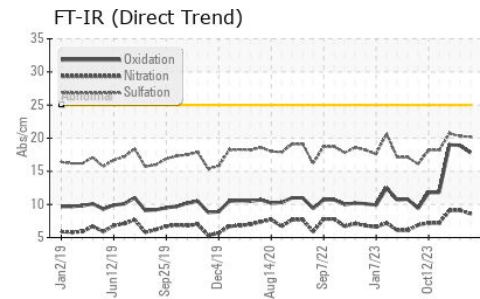
Iron	ppm	ASTM D5185m	>90	2	5	2
Chromium	ppm	ASTM D5185m	>20	<1	<1	0
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m	>2	0	<1	0
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m	>20	3	3	<1
Lead	ppm	ASTM D5185m	>40	0	2	0
Copper	ppm	ASTM D5185m	>330	2	3	2
Tin	ppm	ASTM D5185m	>15	0	1	0
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

Silicon	ppm	ASTM D5185m	>25	4	7	3
Potassium	ppm	ASTM D5185m	>20	1	3	2
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	0.1
Nitration	Abs/cm	*ASTM D7624	>20	8.6	9.1	9.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.2	20.3	20.7
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

Sodium	ppm	ASTM D5185m		1	2	3
Boron	ppm	ASTM D5185m		31	48	30
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		46	55	44
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		749	792	754
Calcium	ppm	ASTM D5185m		1289	1342	1405
Phosphorus	ppm	ASTM D5185m		665	848	796
Zinc	ppm	ASTM D5185m		918	973	924
Sulfur	ppm	ASTM D5185m		2278	2617	2721
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.8	18.9	19.0
Base Number (BN)	mg KOH/g	ASTM D2896		8.5	9.11	8.77
Visc @ 100°C	cSt	ASTM D445		13.6	13.6	13.6



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : DC0036721 **Received** : 16 Jul 2024
Lab Number : 06237628 **Tested** : 17 Jul 2024
Unique Number : 11126462 **Diagnosed** : 18 Jul 2024 - Don Baldrige
Test Package : MOB 1 (Additional Tests: TBN)

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)

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