



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
167759
Component
Diesel Engine
Fluid
DURALENE Dura-Max Xtreme 10W30 (--- QTS)

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		DC0029689	DC0028613	DC0022533
Sample Date		Client Info		18 Dec 2023	03 Jul 2023	24 Apr 2023
Machine Age	mls	Client Info		707985	638650	603362
Oil Age	mls	Client Info		69335	79743	44455
Filter Age	mls	Client Info		69335	79743	44455
Oil Changed		Client Info		Changed	Changed	Not Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	43	62	41
Chromium	ppm	ASTM D5185m	>20	<1	1	<1
Nickel	ppm	ASTM D5185m	>4	2	6	5
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	8	6	5
Lead	ppm	ASTM D5185m	>40	<1	2	0
Copper	ppm	ASTM D5185m	>330	5	6	4
Tin	ppm	ASTM D5185m	>15	<1	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

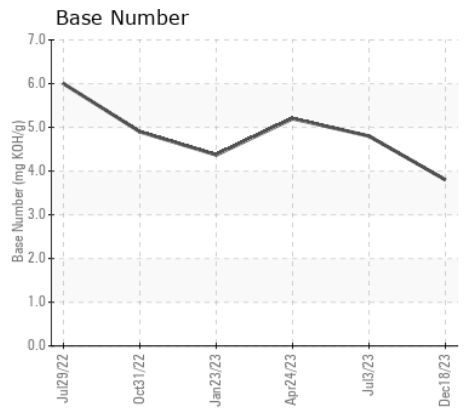
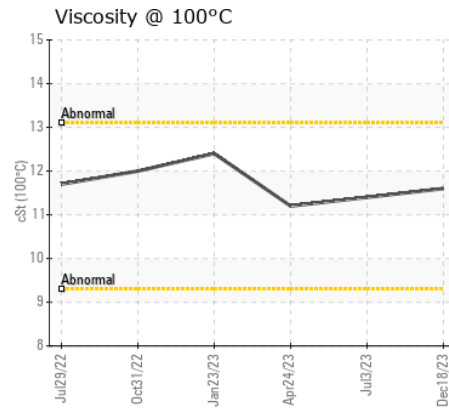
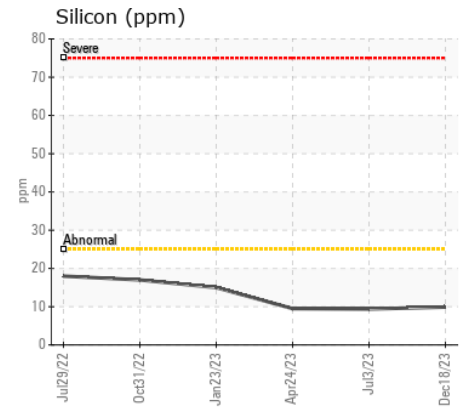
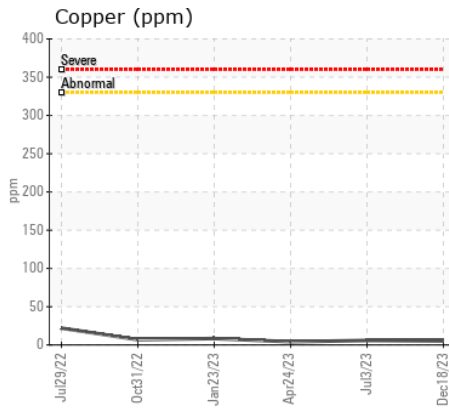
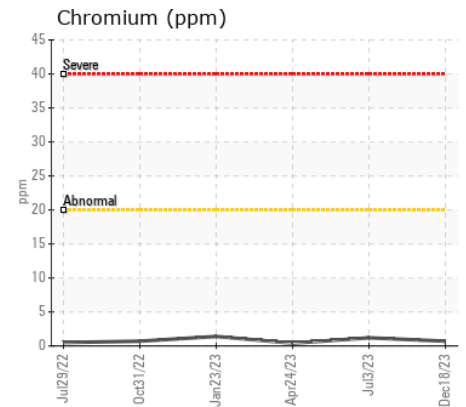
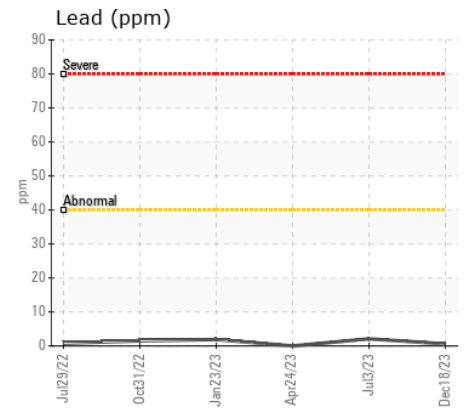
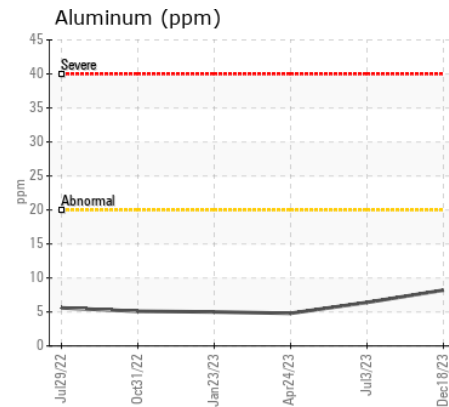
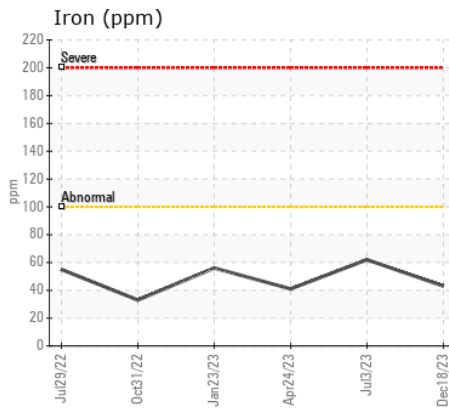
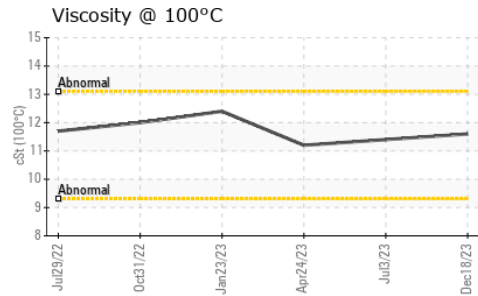
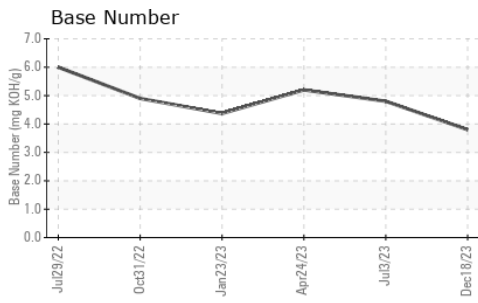
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	10	9	10
Potassium	ppm	ASTM D5185m	>20	2	1	1
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	1	1.3	1.2
Nitration	Abs/cm	*ASTM D7624	>20	11.6	12.6	9.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	28.1	27.7	22.2
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

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		24	28	12
Boron	ppm	ASTM D5185m		11	2	6
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		60	69	66
Manganese	ppm	ASTM D5185m		1	1	1
Magnesium	ppm	ASTM D5185m		793	932	871
Calcium	ppm	ASTM D5185m		1166	1338	1247
Phosphorus	ppm	ASTM D5185m		1036	1082	1018
Zinc	ppm	ASTM D5185m		1237	1344	1310
Sulfur	ppm	ASTM D5185m		2691	3334	3168
Oxidation	Abs/.1mm	*ASTM D7414	>25	24.4	24.1	18.2
Base Number (BN)	mg KOH/g	ASTM D2896		3.8	4.8	5.2
Visc @ 100°C	cSt	ASTM D445		11.6	11.4	11.2



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : DC0029689 **Received** : 26 Dec 2023
Lab Number : 06044310 **Tested** : 27 Dec 2023
Unique Number : 10804918 **Diagnosed** : 27 Dec 2023 - Wes Davis
Test Package : MOB 1 (Additional Tests: TBN)

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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)