



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
1287
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 15W40 (--- 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		WC0870827	WC0806686	WC0772923
Sample Date		Client Info		08 Nov 2023	26 Apr 2023	09 Jan 2023
Machine Age	mls	Client Info		214108	204157	199217
Oil Age	mls	Client Info		0	0	0
Filter Age	mls	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	ABNORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	14	▲ 112	10
Chromium	ppm	ASTM D5185m	>20	<1	3	<1
Nickel	ppm	ASTM D5185m	>4	0	1	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	4	▲ 12	3
Lead	ppm	ASTM D5185m	>40	<1	1	<1
Copper	ppm	ASTM D5185m	>330	2	239	<1
Tin	ppm	ASTM D5185m	>15	0	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

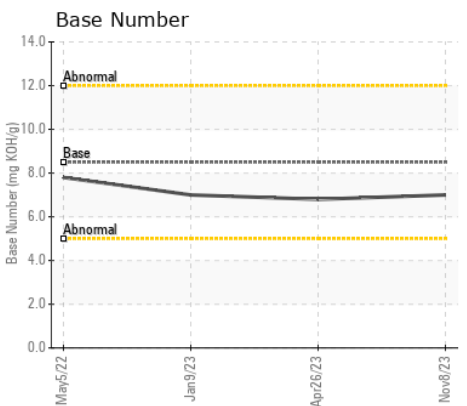
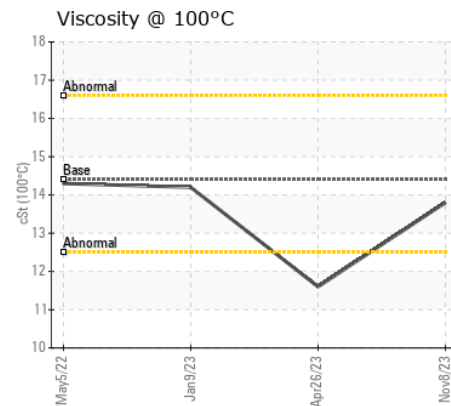
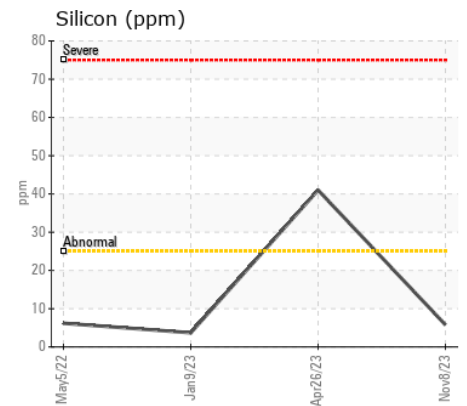
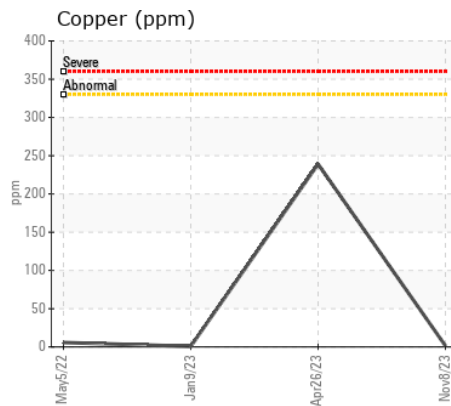
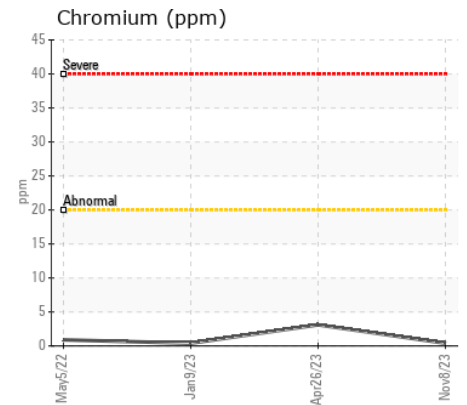
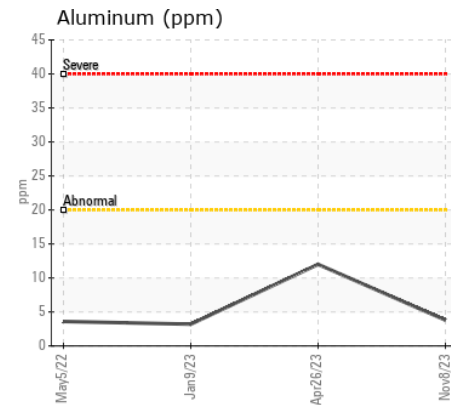
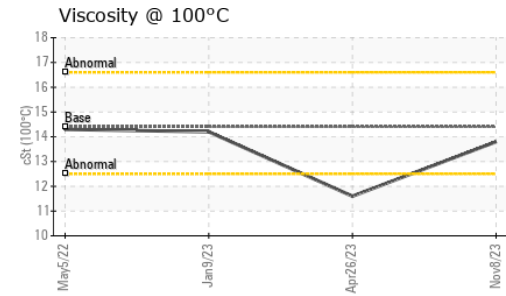
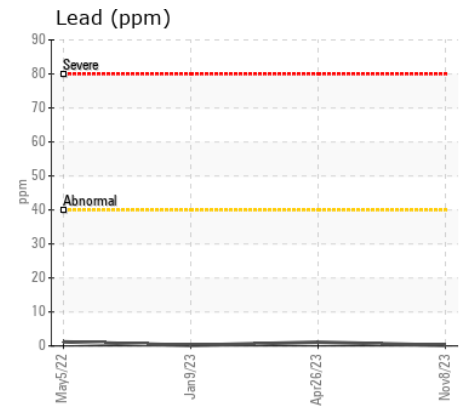
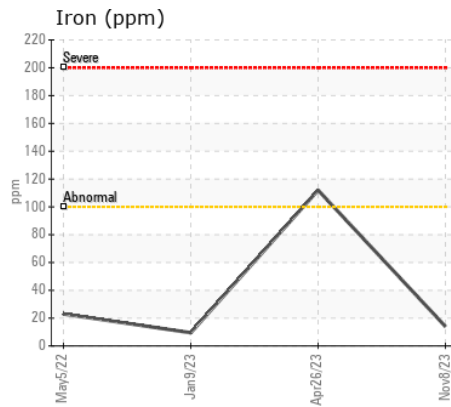
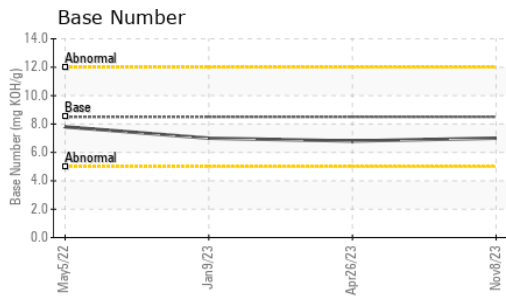
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	6	▲ 41	4
Potassium	ppm	ASTM D5185m	>20	3	29	0
Fuel		WC Method	>5	<1.0	0.2	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.3	0.5	0.3
Nitration	Abs/cm	*ASTM D7624	>20	9.0	10.1	9.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.8	21.0	18.4
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	>158	2	6	2
Boron	ppm	ASTM D5185m	250	30	60	48
Barium	ppm	ASTM D5185m	10	0	7	0
Molybdenum	ppm	ASTM D5185m	100	80	66	80
Manganese	ppm	ASTM D5185m		<1	5	<1
Magnesium	ppm	ASTM D5185m	450	193	284	43
Calcium	ppm	ASTM D5185m	3000	2007	1956	2186
Phosphorus	ppm	ASTM D5185m	1150	1051	962	1017
Zinc	ppm	ASTM D5185m	1350	1246	1170	1209
Sulfur	ppm	ASTM D5185m	4250	3608	3468	4409
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.6	16.4	13.6
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	7.0	6.8	7.0
Visc @ 100°C	cSt	ASTM D445	14.4	13.8	▲ 11.6	14.2



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0870827 **Received** : 16 Jan 2024
Lab Number : 06061756 **Diagnosed** : 18 Jan 2024
Unique Number : 10833138 **Diagnostician** : Wes Davis
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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