



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
H-0
 Component
Gasoline Engine
 Fluid
DIESEL ENGINE OIL SAE 5W30 (--- GAL)

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		LP0000595	WC0468775	WC0468778
Sample Date		Client Info		13 Jun 2024	21 Feb 2024	24 Sep 2020
Machine Age	mls	Client Info		73904	68781	29013
Oil Age	mls	Client Info		3000	3000	0
Filter Age	mls	Client Info		3000	3000	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>150	10	5	15
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	<1	0	<1
Titanium	ppm	ASTM D5185m		5	0	31
Silver	ppm	ASTM D5185m	>2	<1	0	<1
Aluminum	ppm	ASTM D5185m	>40	3	3	3
Lead	ppm	ASTM D5185m	>50	<1	0	<1
Copper	ppm	ASTM D5185m	>155	17	10	42
Tin	ppm	ASTM D5185m	>10	<1	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

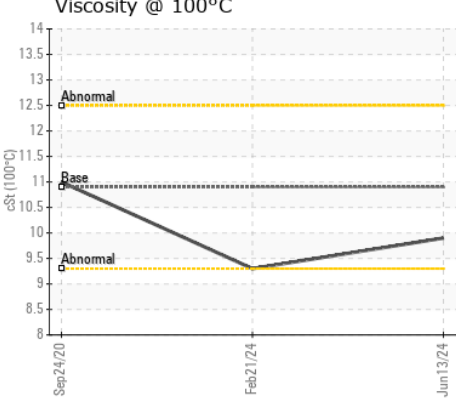
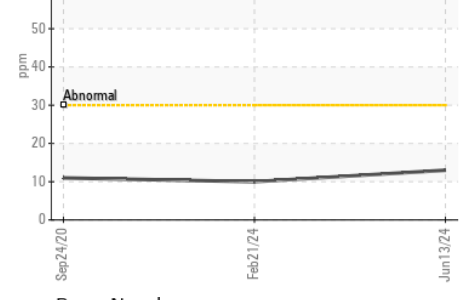
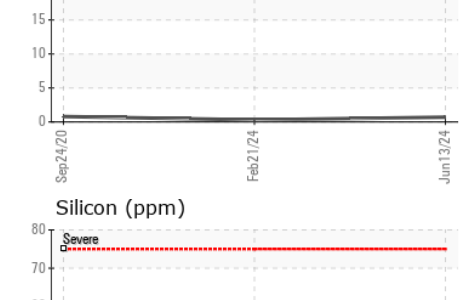
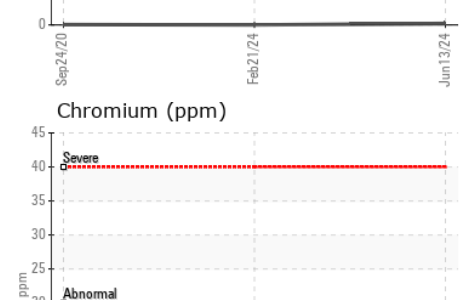
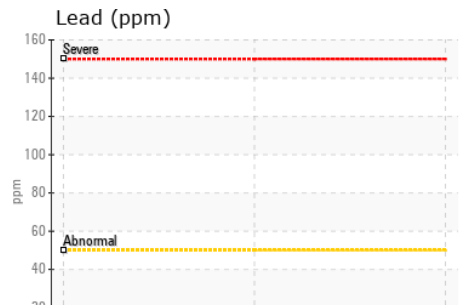
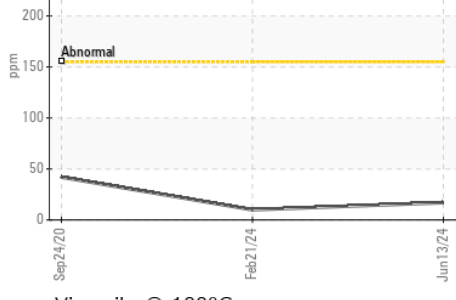
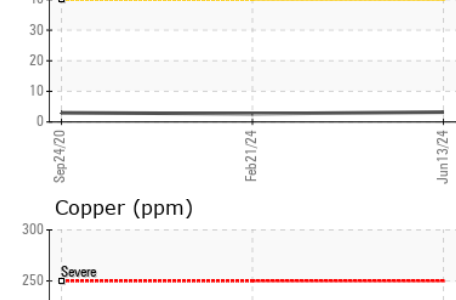
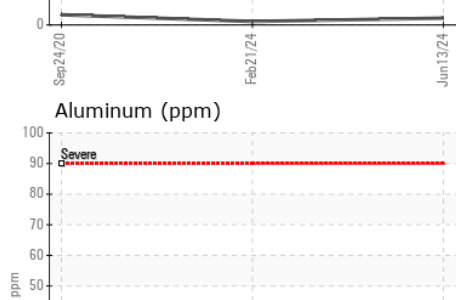
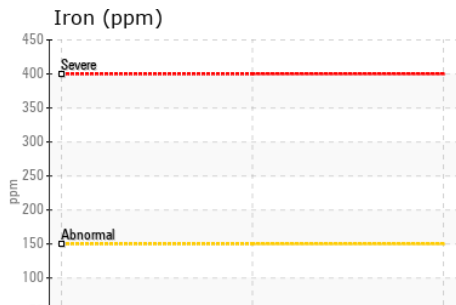
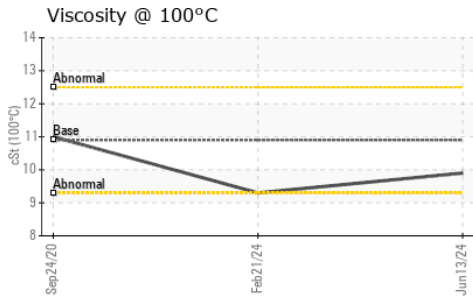
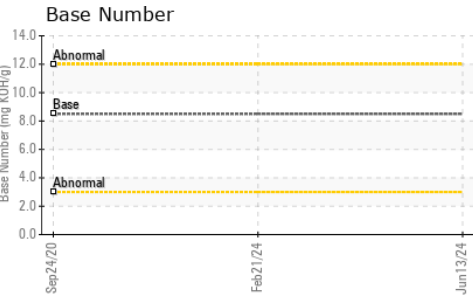
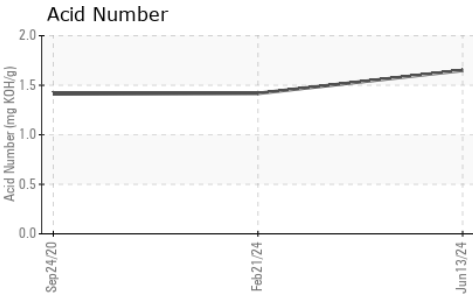
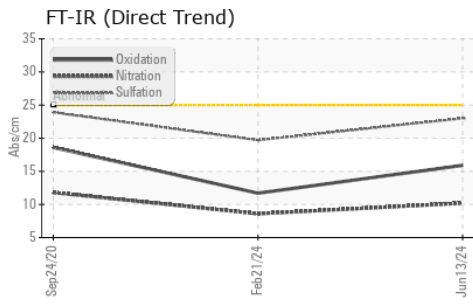
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>30	13	10	11
Potassium	ppm	ASTM D5185m	>20	3	0	<1
Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844		0.1	0.1	0
Nitration	Abs/cm	*ASTM D7624	>20	10.2	8.6	11.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.0	19.7	23.9
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 AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m	>400	2	0	4
Boron	ppm	ASTM D5185m	250	36	60	98
Barium	ppm	ASTM D5185m	10	1	0	0
Molybdenum	ppm	ASTM D5185m	100	55	75	61
Manganese	ppm	ASTM D5185m		2	1	<1
Magnesium	ppm	ASTM D5185m	450	687	584	713
Calcium	ppm	ASTM D5185m	3000	851	782	1151
Phosphorus	ppm	ASTM D5185m	1150	619	535	610
Zinc	ppm	ASTM D5185m	1350	714	672	750
Sulfur	ppm	ASTM D5185m	4250	2269	2059	2032
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.9	11.7	18.6
Acid Number (AN)	mg KOH/g	ASTM D8045		1.65	1.418	1.412
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	4.88	---	---
Visc @ 100°C	cSt	ASTM D445	10.9	9.9	9.3	11.0



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LP0000595 **Received** : 21 Jun 2024
Lab Number : 06217412 **Tested** : 26 Jun 2024
Unique Number : 11090276 **Diagnosed** : 26 Jun 2024 - Wes Davis
Test Package : MOB 2 (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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