



# OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Machine Id  
**DODGE RAM**  
 Component  
**Gasoline Engine**  
 Fluid  
**ALPHA 10W30 PREM (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0865848</b>	WC0617386	WC0617383
Sample Date		Client Info		<b>15 Apr 2024</b>	28 Sep 2023	12 Jun 2023
Machine Age	mls	Client Info		<b>152518</b>	129747	109724
Oil Age	mls	Client Info		<b>16267</b>	20023	0
Filter Age	mls	Client Info		<b>16267</b>	20023	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	ABNORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>150	<b>57</b>	129	63
Chromium	ppm	ASTM D5185m	>20	<b>2</b>	2	1
Nickel	ppm	ASTM D5185m	>5	<b>1</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>40	<b>12</b>	31	19
Lead	ppm	ASTM D5185m	>50	<b>&lt;1</b>	0	0
Copper	ppm	ASTM D5185m	>155	<b>3</b>	4	5
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

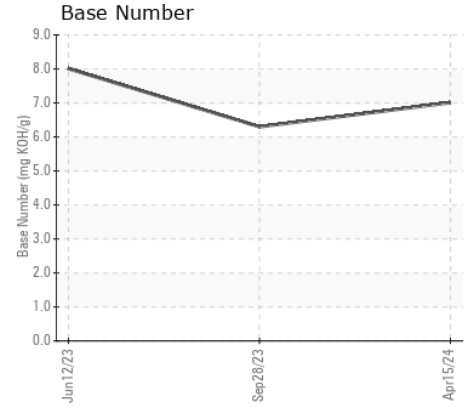
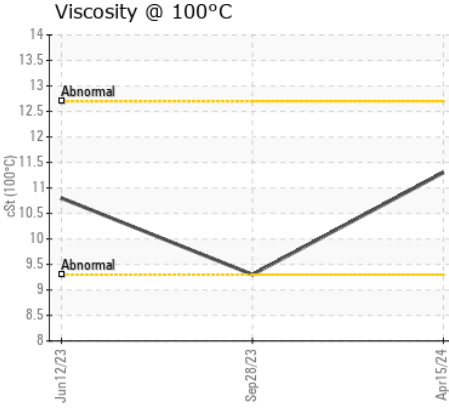
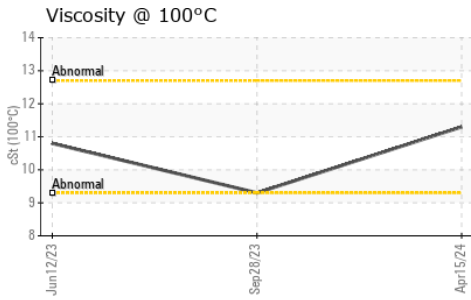
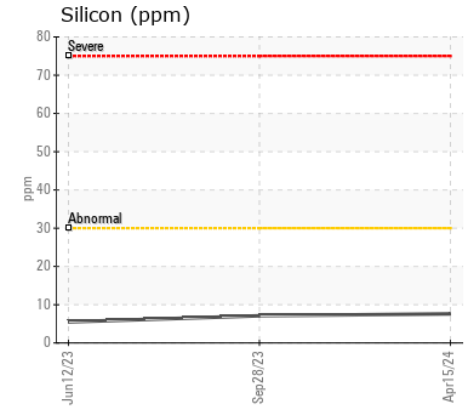
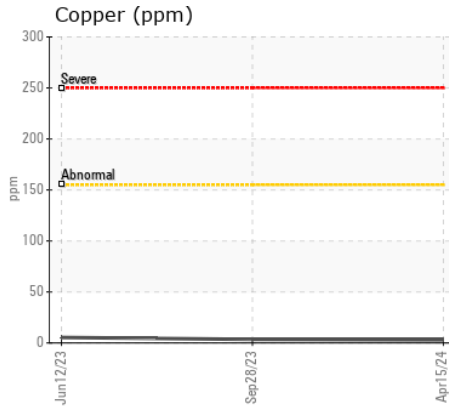
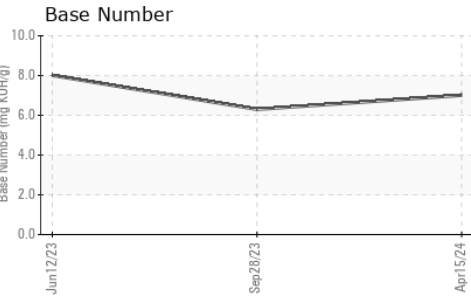
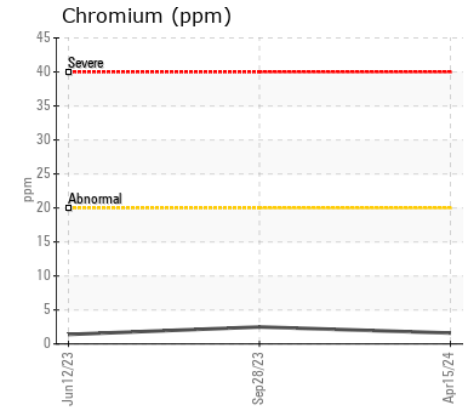
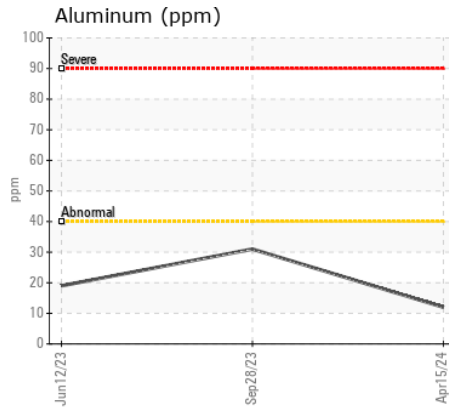
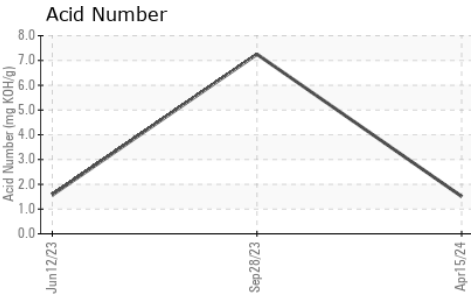
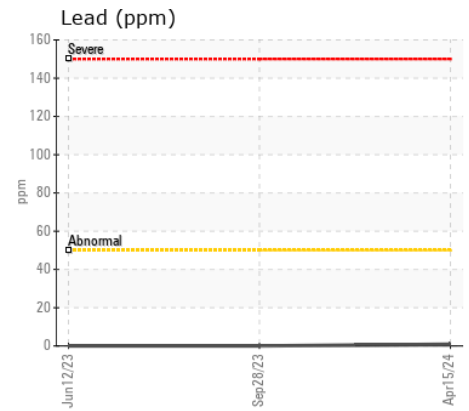
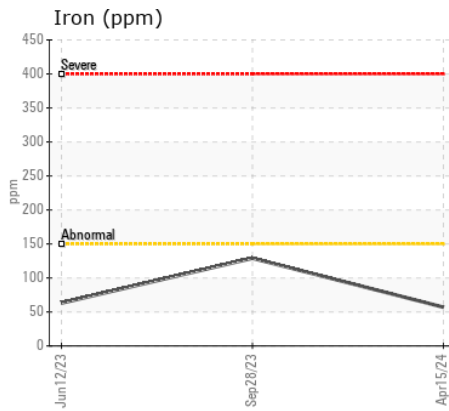
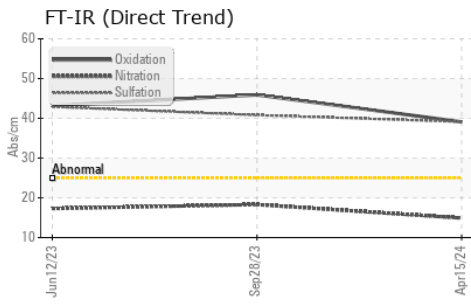
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>30	<b>8</b>	7	6
Potassium	ppm	ASTM D5185m	>20	<b>10</b>	30	21
Fuel		WC Method	>4.0	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844		<b>0.9</b>	1.4	1.2
Nitration	Abs/cm	*ASTM D7624	>20	<b>14.9</b>	18.3	17.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>39.1</b>	40.8	42.9
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	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	<b>3</b>	2	3
Boron	ppm	ASTM D5185m		<b>0</b>	0	0
Barium	ppm	ASTM D5185m		<b>2</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>156</b>	<1	<1
Manganese	ppm	ASTM D5185m		<b>1</b>	2	1
Magnesium	ppm	ASTM D5185m		<b>12</b>	18	17
Calcium	ppm	ASTM D5185m		<b>3255</b>	2950	3786
Phosphorus	ppm	ASTM D5185m		<b>864</b>	702	833
Zinc	ppm	ASTM D5185m		<b>892</b>	879	1035
Sulfur	ppm	ASTM D5185m		<b>3675</b>	3240	4026
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>39.1</b>	45.9	43.2
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>1.51</b>	▲ 7.252	1.57
Base Number (BN)	mg KOH/g	ASTM D2896		<b>7.01</b>	6.30	8.01
Visc @ 100°C	cSt	ASTM D445		<b>11.3</b>	9.3	10.8



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0865848 **Received** : 18 Apr 2024  
**Lab Number** : 06153819 **Tested** : 23 Apr 2024  
**Unique Number** : 10989242 **Diagnosed** : 23 Apr 2024 - Jonathan Hester  
**Test Package** : MOB 2 ( 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)