



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
DODGE RAM 2018 DODGE RAM
Component
Diesel Engine
Fluid
SAE 5W20 (--- GAL)

RECOMMENDATION

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0740326	WC0680736	WC0680726
Sample Date		Client Info		12 Jul 2023	23 Jul 2022	17 Mar 2022
Machine Age	kms	Client Info		124470	102800	93576
Oil Age	kms	Client Info		16400	9300	15900
Filter Age	kms	Client Info		16400	9300	15900
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	23	18	36
Chromium	ppm	ASTM D5185(m)	>20	1	<1	2
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	3	2	4
Lead	ppm	ASTM D5185(m)	>40	<1	<1	<1
Copper	ppm	ASTM D5185(m)	>330	10	12	15
Tin	ppm	ASTM D5185(m)	>15	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

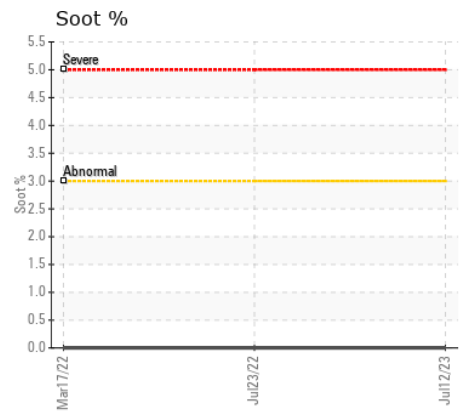
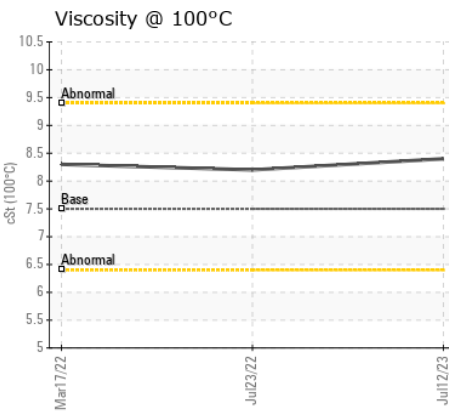
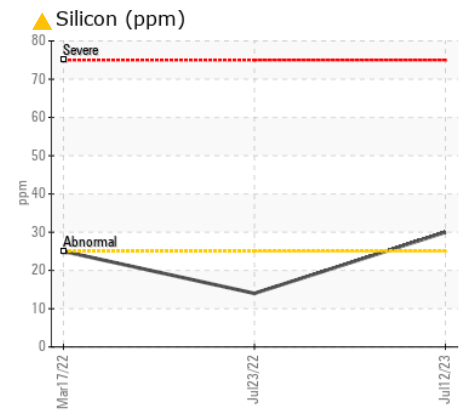
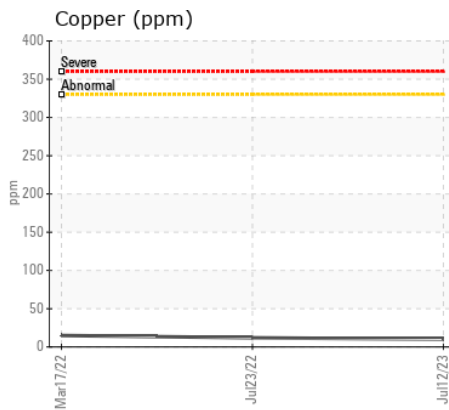
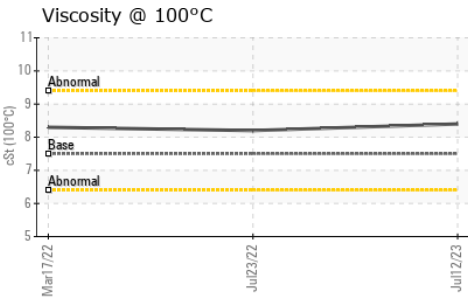
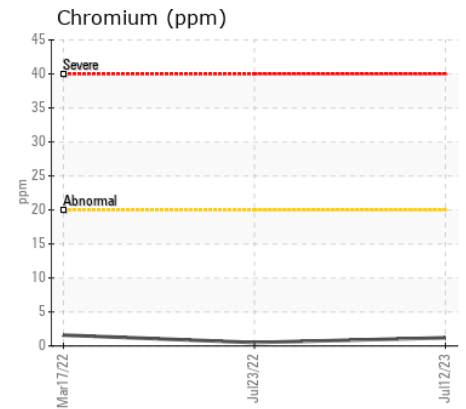
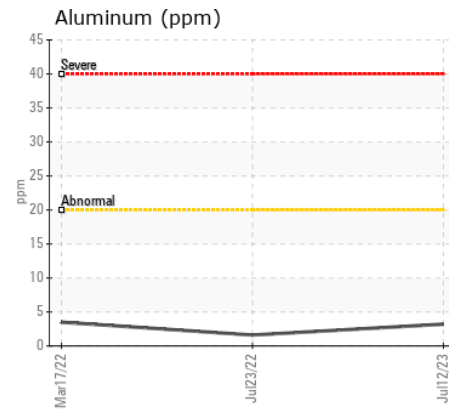
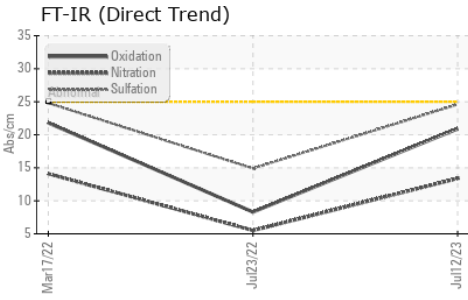
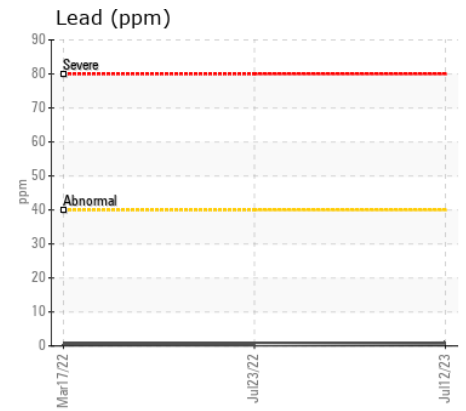
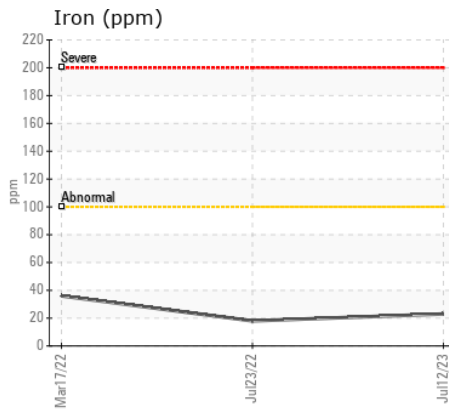
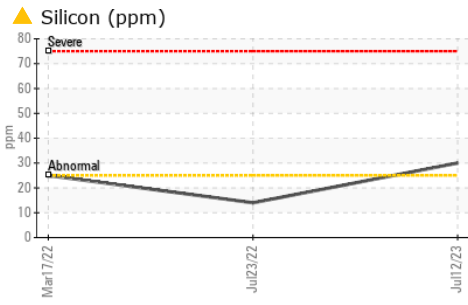
There is a moderate concentration of dirt present in the oil.

Silicon	ppm	ASTM D5185(m)	>25	▲ 30	14	25
Potassium	ppm	ASTM D5185(m)	>20	1	14	1
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	0.0	NEG
Soot %	%	ASTM D7844*	>3	0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	13.4	5.5	14.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	24.6	14.9	24.8
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185(m)		3	2	2
Boron	ppm	ASTM D5185(m)		21	14	16
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		137	84	137
Manganese	ppm	ASTM D5185(m)		<1	<1	<1
Magnesium	ppm	ASTM D5185(m)		438	437	399
Calcium	ppm	ASTM D5185(m)		1213	1148	1150
Phosphorus	ppm	ASTM D5185(m)		662	647	605
Zinc	ppm	ASTM D5185(m)		746	728	704
Sulfur	ppm	ASTM D5185(m)		1597	1750	1468
Oxidation	Abs/.1mm	ASTM D7414*	>25	20.9	8.3	21.8
Visc @ 100°C	cSt	ASTM D7279(m)	7.5	8.4	8.2	8.3



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0740326 **Received** : 19 Jul 2023
Lab Number : 02570891 **Tested** : 19 Jul 2023
Unique Number : 5615942 **Diagnosed** : 20 Jul 2023 - Kevin Marson
Test Package : MOB 1

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To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.