



TRAAP

Texas Refinery Advanced Analysis Program

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
DODGE 2015 DODGE RAM
 Component
Gasoline Engine
 Fluid
TRC PRO-SPEC MULTI VISC 5W30 (6 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR06086736	TR06042724	TR05912049
Sample Date		Client Info		02 Feb 2024	16 Dec 2023	24 Jul 2023
Machine Age	mls	Client Info		155196	151670	141083
Oil Age	mls	Client Info		3526	10637	3458
Filter Age	mls	Client Info		3526	10637	3458
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	16	33	37
Chromium	ppm	ASTM D5185m	>20	<1	<1	1
Nickel	ppm	ASTM D5185m	>5	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>40	3	3	4
Lead	ppm	ASTM D5185m	>50	0	0	0
Copper	ppm	ASTM D5185m	>155	4	5	6
Tin	ppm	ASTM D5185m	>10	2	0	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

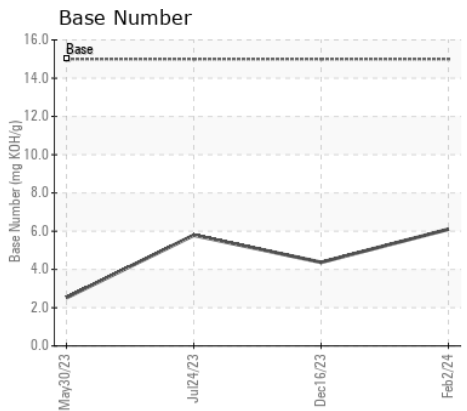
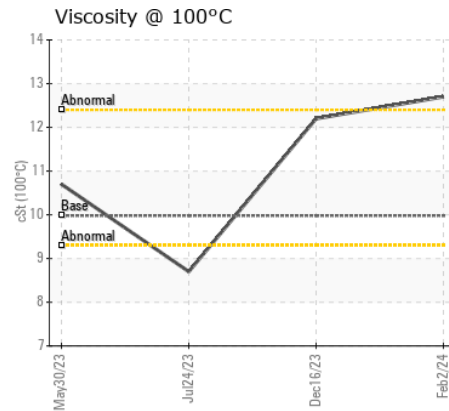
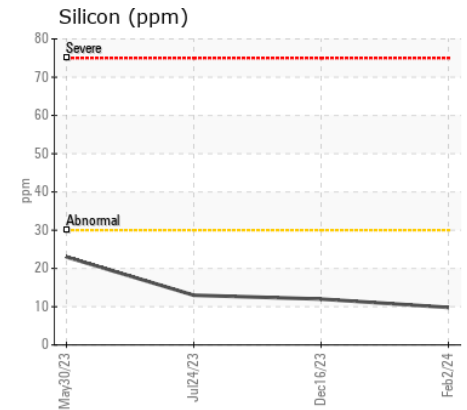
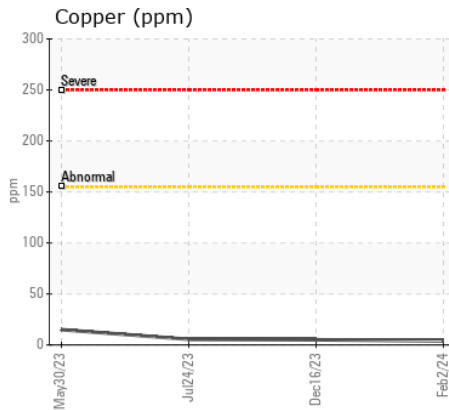
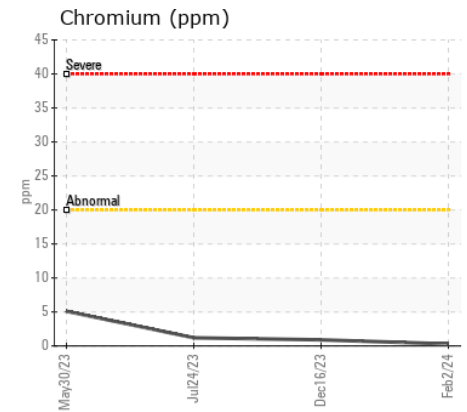
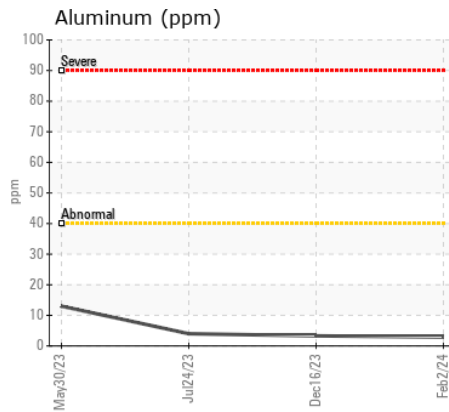
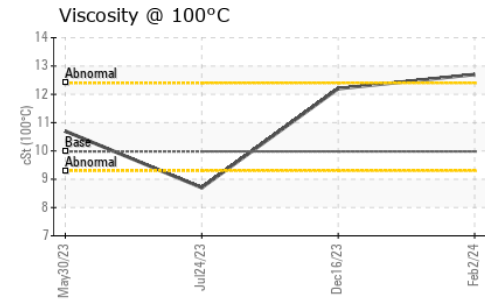
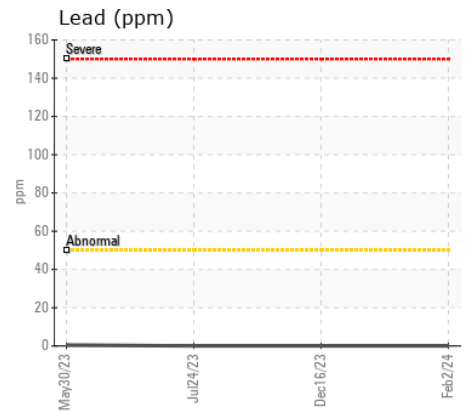
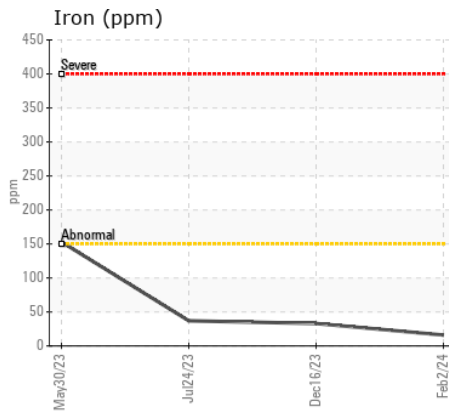
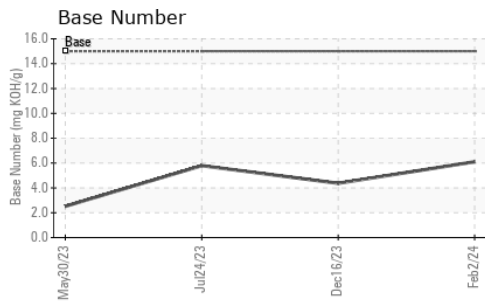
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>30	10	12	13
Potassium	ppm	ASTM D5185m	>20	<1	0	3
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	0	0.1
Nitration	Abs/cm	*ASTM D7624	>20	8.6	11.1	9.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.9	24.5	20.2
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	>400	<1	2	3
Boron	ppm	ASTM D5185m		23	11	32
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		254	254	280
Manganese	ppm	ASTM D5185m		<1	<1	1
Magnesium	ppm	ASTM D5185m		430	445	490
Calcium	ppm	ASTM D5185m	4200	1425	1342	1489
Phosphorus	ppm	ASTM D5185m	800	630	681	701
Zinc	ppm	ASTM D5185m	800	798	812	866
Sulfur	ppm	ASTM D5185m		1891	2018	2665
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.6	21.9	15.4
Base Number (BN)	mg KOH/g	ASTM D2896	15	6.10	4.37	5.79
Visc @ 100°C	cSt	ASTM D445	9.98	12.7	12.2	8.7



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TR06086736
Lab Number : 06086736
Unique Number : 10874181
Test Package : MOB 2

Received : 12 Feb 2024
Tested : 13 Feb 2024
Diagnosed : 14 Feb 2024 - Don Baldrige

DAN NIGHTENGALE
 1806 15TH ST
 RICE LAKE, WI
 US 54868-9568

Contact: DAN NIGHTENGALE
 NIGHTENGALE.DAN65@GMAIL.COM

To discuss this sample report, contact Customer Service at 1-800-827-0711.

* - 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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F: