TRAAP
Texas Refinery Advanced Analysis Program

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
DODGE DODGE RAM 3500
Component
Diesel Engine
Fluid
TRC MOLY XL PROSPEC III 15W40 (12 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

Metal levels are typical for a new component breaking in.

CONTAMINATION

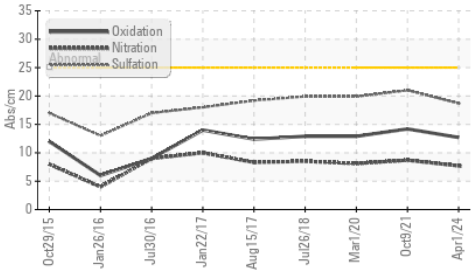
There is no indication of any contamination in the oil.

FLUID CONDITION

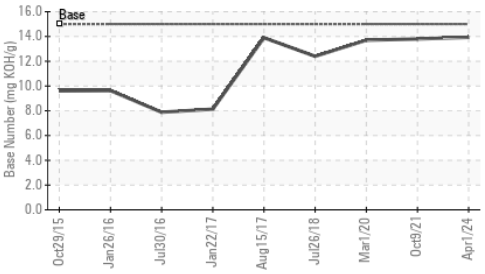
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR06237087	TR05409429	TR04927769
Sample Date		Client Info		01 Apr 2024	09 Oct 2021	01 Mar 2020
Machine Age	mls	Client Info		63046	56710	48036
Oil Age	mls	Client Info		6336	8674	9628
Filter Age	mls	Client Info		6336	8674	9628
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>120	30	27	14
Chromium	ppm	ASTM D5185m	>10	<1	1	<1
Nickel	ppm	ASTM D5185m	>5	0	<1	0
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>5	0	<1	0
Aluminum	ppm	ASTM D5185m	>20	6	5	9
Lead	ppm	ASTM D5185m	>40	0	<1	0
Copper	ppm	ASTM D5185m	>300	2	5	6
Tin	ppm	ASTM D5185m	>10	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	12	11	15
Potassium	ppm	ASTM D5185m	>20	5	8	11
Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844		0.2	0.4	0.3
Nitration	Abs/cm	*ASTM D7624	>20	7.7	8.7	8.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.7	21	19.9
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	>0.1	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m		2	4	4
Boron	ppm	ASTM D5185m		221	210	194
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		213	225	198
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		464	519	437
Calcium	ppm	ASTM D5185m	4500	4193	4708	4021
Phosphorus	ppm	ASTM D5185m		906	927	775
Zinc	ppm	ASTM D5185m	1400	1102	1094	936
Sulfur	ppm	ASTM D5185m		3766	3615	2829
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.7	14.2	12.9
Base Number (BN)	mg KOH/g	ASTM D2896	15	13.93	13.8	13.7
Visc @ 100°C	cSt	ASTM D445	15.5	14.8	15.1	14.4

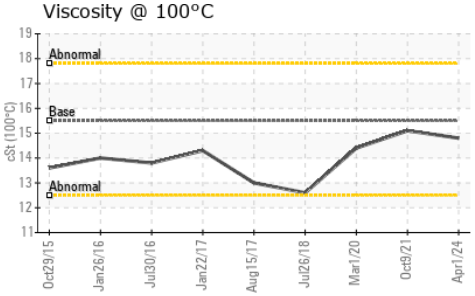
FT-IR (Direct Trend)



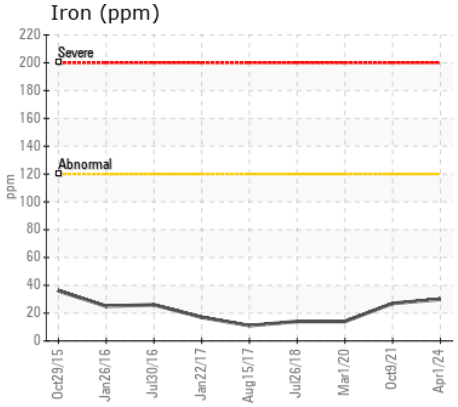
Base Number



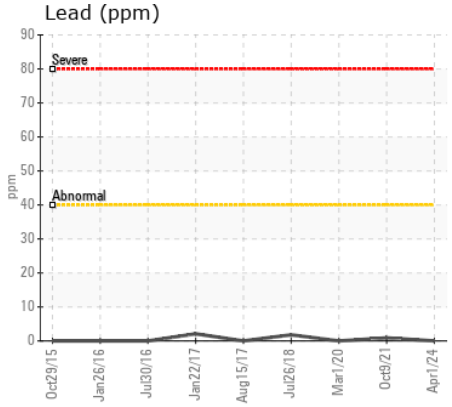
Viscosity @ 100°C



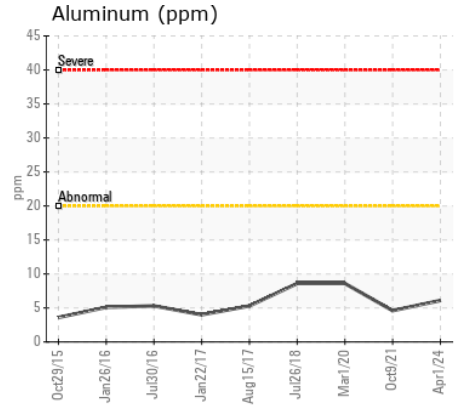
Iron (ppm)



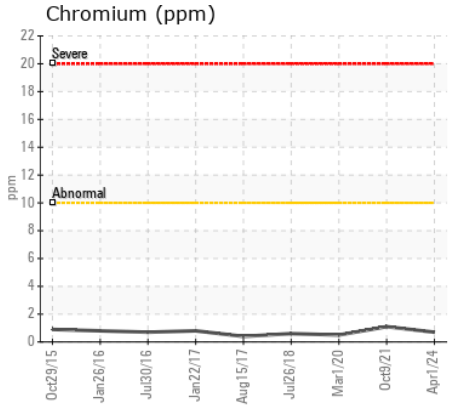
Lead (ppm)



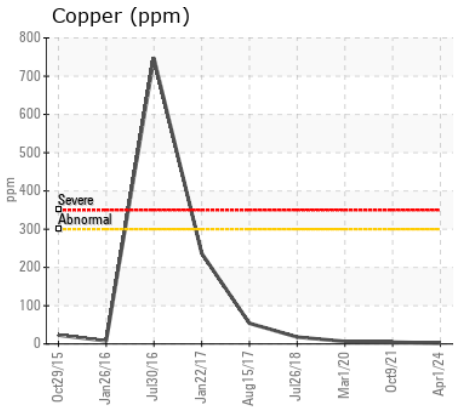
Aluminum (ppm)



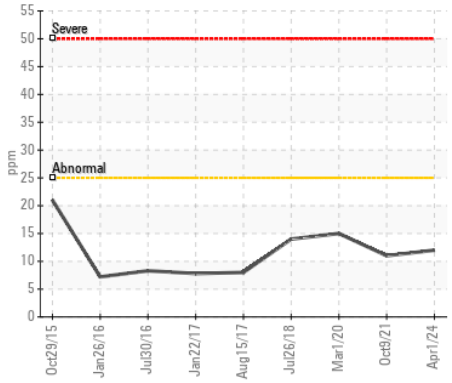
Chromium (ppm)



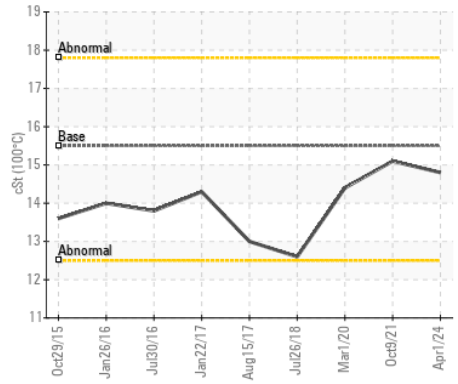
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



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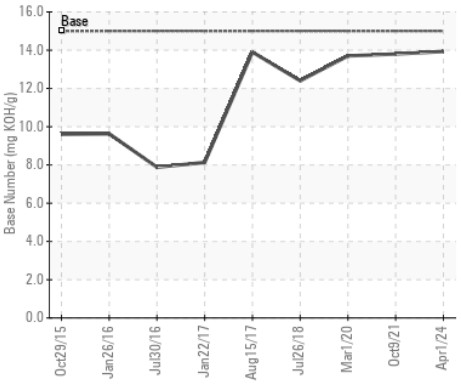

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TR06237087
Lab Number : 06237087
Unique Number : 11125921
Test Package : MOB 2

Received : 15 Jul 2024
Tested : 17 Jul 2024
Diagnosed : 17 Jul 2024 - Wes Davis

ANDREW KRIEGER
602 PARK PLAINE AVE
PARK RIDGE, IL
US 60068
Contact: SERVICE MANAGER

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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