



TRAAP

Texas Refinery Advanced Analysis Program

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
DODGE RAM 262 GEL
 Component
Diesel Engine
 Fluid
TRC PRO-SPEC 0W/40 SYNTHETIC MOTOR OIL (11 LTR)

RECOMMENDATION

Confirm the source of the lubricant being utilized for top-up/fill.
 Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR02632977	TR02310120	TR02246096
Sample Date		Client Info		15 Apr 2024	03 Sep 2019	15 Oct 2018
Machine Age	kms	Client Info		693319	464032	421736
Oil Age	kms	Client Info		60498	65664	23368
Filter Age	kms	Client Info		60498	65664	23368
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	ABNORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>90	54	49	30
Chromium	ppm	ASTM D5185(m)	>20	3	3	1
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	<1	0
Silver	ppm	ASTM D5185(m)	>2	0	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	6	6	3
Lead	ppm	ASTM D5185(m)	>40	2	3	1
Copper	ppm	ASTM D5185(m)	>330	7	4	3
Tin	ppm	ASTM D5185(m)	>15	0	<1	0
Vanadium	ppm	ASTM D5185(m)		0	<1	0

CONTAMINATION

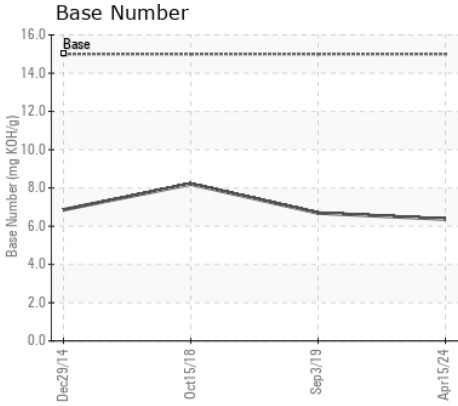
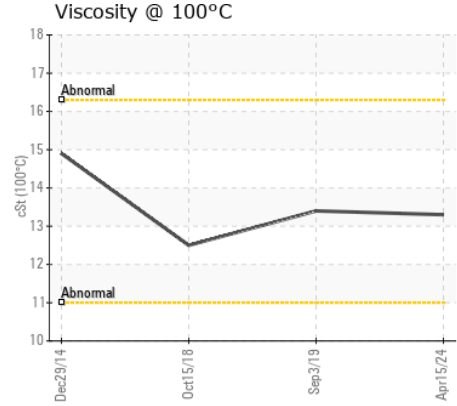
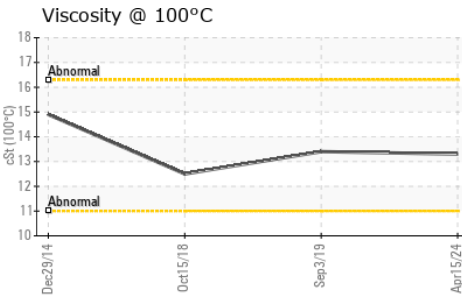
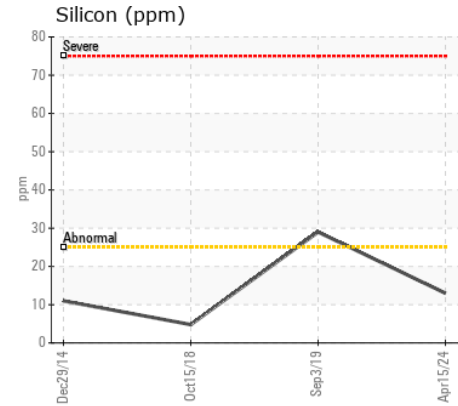
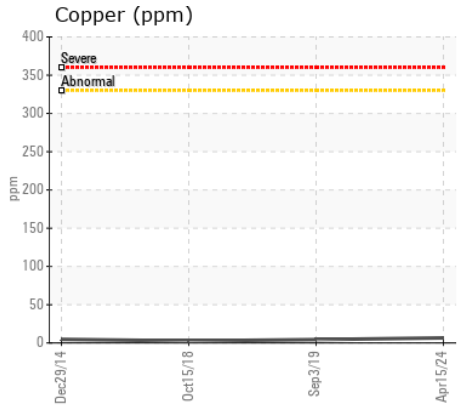
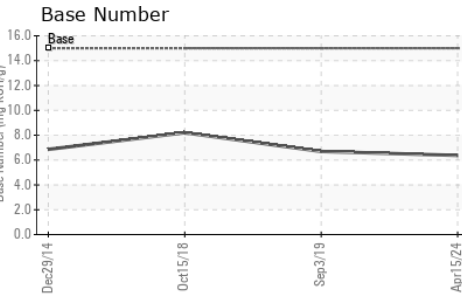
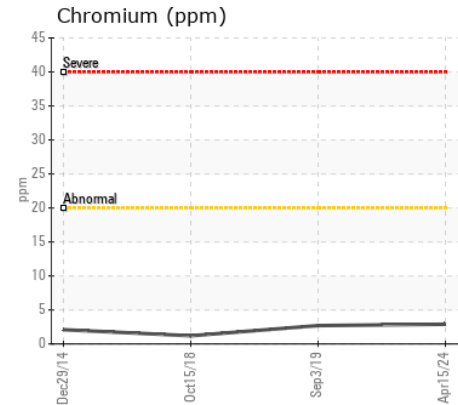
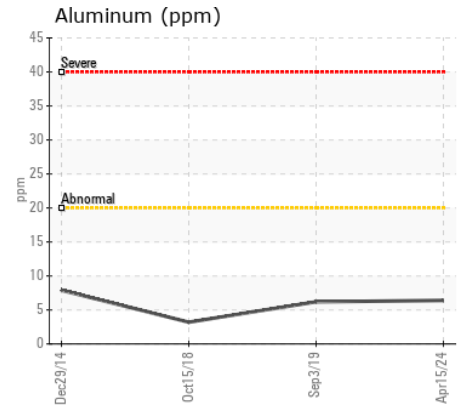
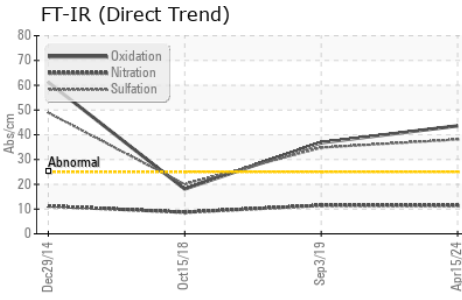
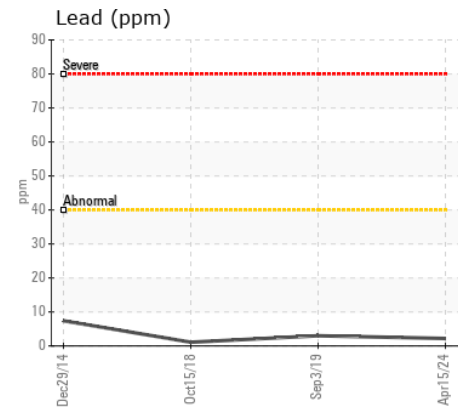
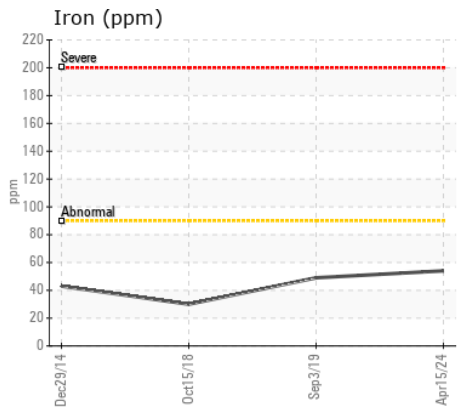
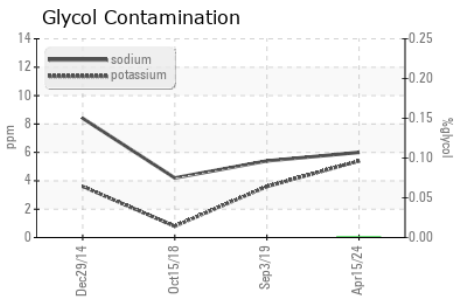
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	13	▲ 29	5
Potassium	ppm	ASTM D5185(m)	>20	5	4	<1
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	ASTM D7922*		0.0	NEG	NEG
Soot %	%	ASTM D7844*	>6	0.4	0.1	0
Nitration	Abs/cm	ASTM D7624*	>20	11.4	11.5	8.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	38.1	34.8	20.0
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

Additive levels indicate the addition of a different brand, or type of oil.
 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 D5185(m)		6	5	4
Boron	ppm	ASTM D5185(m)		30	37	6
Barium	ppm	ASTM D5185(m)		0	<1	0
Molybdenum	ppm	ASTM D5185(m)		113	46	58
Manganese	ppm	ASTM D5185(m)		<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	6	24	701	934
Calcium	ppm	ASTM D5185(m)	1600	2380	1643	1138
Phosphorus	ppm	ASTM D5185(m)		959	1048	986
Zinc	ppm	ASTM D5185(m)	1400	1177	1329	1228
Sulfur	ppm	ASTM D5185(m)		2906	2545	2545
Oxidation	Abs/.1mm	ASTM D7414*	>25	43.6	36.8	18.1
Base Number (BN)	mg KOH/g	ASTM D2896*	15	6.37	6.69	8.20
Visc @ 100°C	cSt	ASTM D7279(m)		13.3	13.4	12.5



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : TR02632977 **Received** : 03 May 2024
Lab Number : 02632977 **Tested** : 06 May 2024
Unique Number : 5774130 **Diagnosed** : 06 May 2024 - Wes Davis
Test Package : MOB 2 (Additional Tests: Glycol)

MATTHEW KUBIN
 709 TEMPERANCE ST
 SASKATOON, SK
 CA S7L 0M6
 Contact: Matthew Kubin

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: