



TRAAP

Texas Refinery Advanced Analysis Program

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
DODGE 128 IPQ
 Component
Diesel Engine
 Fluid
TRC PRO-SPEC III SYNTHETIC BLEND 15W40 (12 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR02640687	TR02591346	TR02568682
Sample Date		Client Info		03 Jun 2024	13 Oct 2023	20 Jun 2023
Machine Age	kms	Client Info		532831	502010	481877
Oil Age	kms	Client Info		43656	12835	95279
Filter Age	kms	Client Info		43656	12835	95279
Oil Changed		Client Info		Not Changed	Not Changed	Not Changed
Filter Changed		Client Info		Not Changed	Not Changed	Not Changed
Sample Status				NORMAL	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>90	86	48	▲ 107
Chromium	ppm	ASTM D5185(m)	>20	2	1	3
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	1
Titanium	ppm	ASTM D5185(m)	>2	<1	0	<1
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	12	9	19
Lead	ppm	ASTM D5185(m)	>40	0	<1	0
Copper	ppm	ASTM D5185(m)	>330	2	1	2
Tin	ppm	ASTM D5185(m)	>15	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	<1

CONTAMINATION

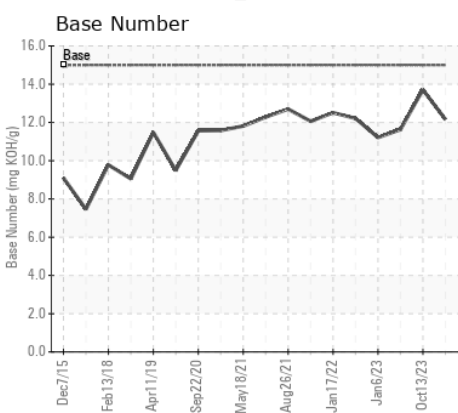
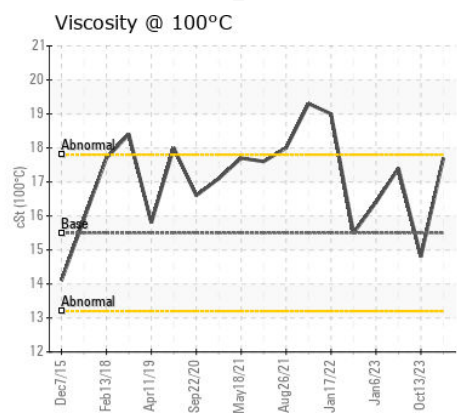
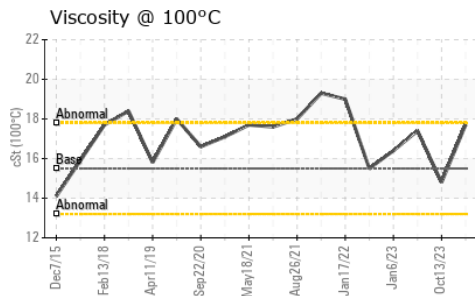
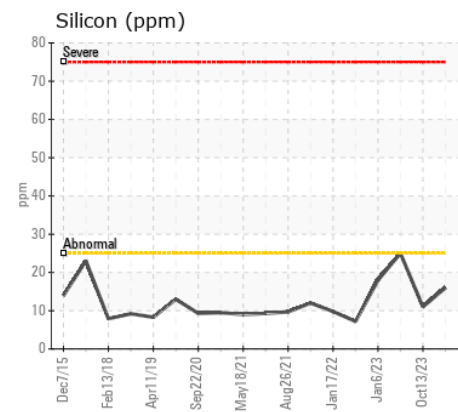
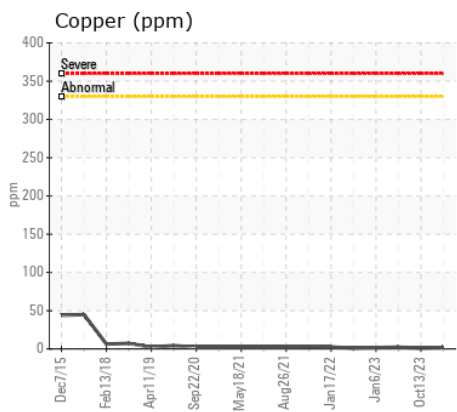
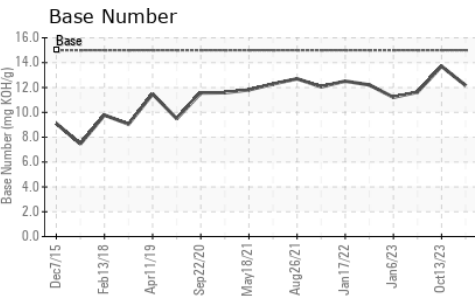
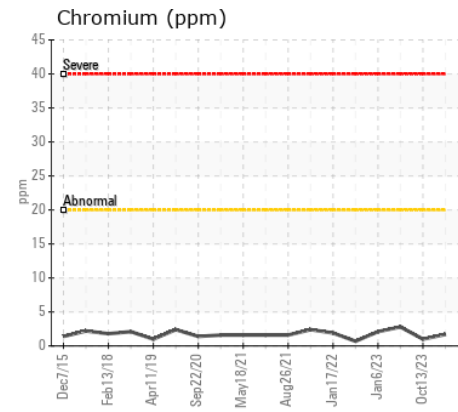
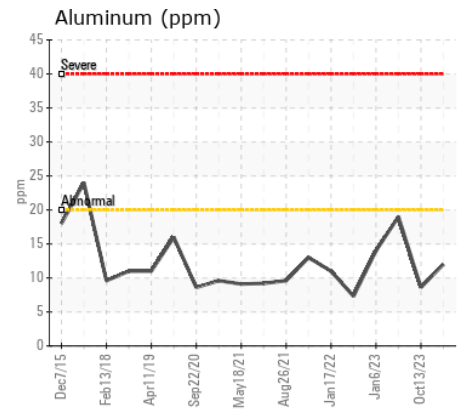
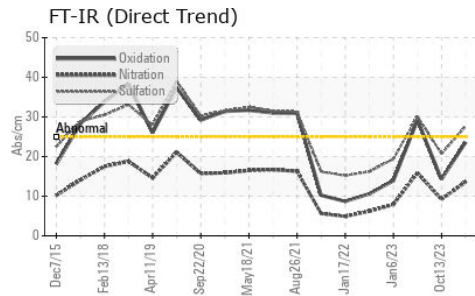
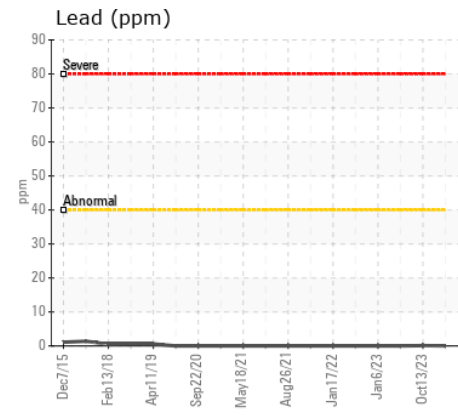
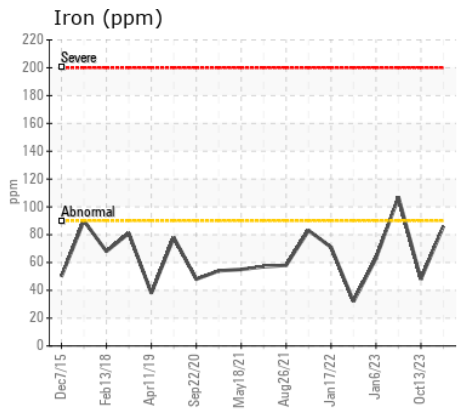
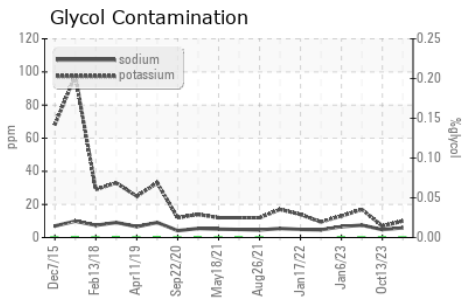
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	16	11	▲ 25
Potassium	ppm	ASTM D5185(m)	>20	10	7	17
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	ASTM D7922*		0.0	0.0	0.0
Soot %	%	ASTM D7844*	>6	0.2	0	0.2
Nitration	Abs/cm	ASTM D7624*	>20	13.6	9.2	15.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	27.6	20.7	30.1
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 D5185(m)		6	5	8
Boron	ppm	ASTM D5185(m)		17	23	43
Barium	ppm	ASTM D5185(m)		<1	0	0
Molybdenum	ppm	ASTM D5185(m)		38	40	97
Manganese	ppm	ASTM D5185(m)		<1	0	1
Magnesium	ppm	ASTM D5185(m)		25	22	30
Calcium	ppm	ASTM D5185(m)	4500	5373	5179	4921
Phosphorus	ppm	ASTM D5185(m)		1040	1008	1168
Zinc	ppm	ASTM D5185(m)	1400	1266	1227	1299
Sulfur	ppm	ASTM D5185(m)		3366	3549	3425
Oxidation	Abs/.1mm	ASTM D7414*	>25	23.6	14.3	29.2
Base Number (BN)	mg KOH/g	ASTM D2896*	15	12.16	13.71	11.63
Visc @ 100°C	cSt	ASTM D7279(m)	15.5	17.7	14.8	17.4



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : TR02640687
Lab Number : 02640687
Unique Number : 5789849
Test Package : MOB 2 (Additional Tests: Glycol)
Received : 10 Jun 2024
Tested : 11 Jun 2024
Diagnosed : 11 Jun 2024 - Wes Davis

BRANT COMO
 1218 AVENUE P NORTH
 SASKATOON, SK
 CA S7L 2W9
 Contact: Allain Gagnon

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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