



TRAAP

Texas Refinery Advanced Analysis Program

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
DODGE 130LUN
 Component
Diesel Engine
 Fluid
TRC PRO-SPEC IV+ SYN 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		TR02628637	TR02464891	TR02315620
Sample Date		Client Info		07 Apr 2024	22 Dec 2021	15 Oct 2019
Machine Age	kms	Client Info		219122	198026	178336
Oil Age	kms	Client Info		35000	0	15632
Filter Age	kms	Client Info		0	0	15632
Oil Changed		Client Info		Not Changed	Not Changed	Not Changed
Filter Changed		Client Info		Not Changed	Not Changed	Not Changed
Sample Status				NORMAL	ABNORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>90	53	▲ 103	47
Chromium	ppm	ASTM D5185(m)	>20	<1	2	1
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	<1
Silver	ppm	ASTM D5185(m)	>2	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	4	12	7
Lead	ppm	ASTM D5185(m)	>40	0	0	0
Copper	ppm	ASTM D5185(m)	>330	2	2	1
Tin	ppm	ASTM D5185(m)	>15	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

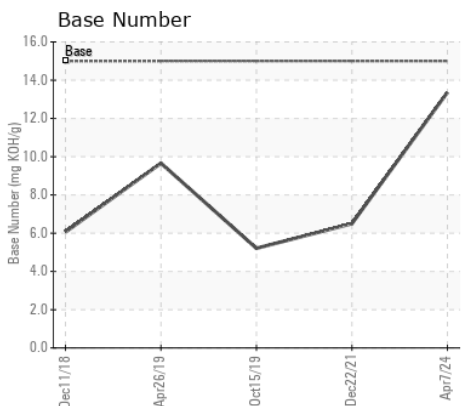
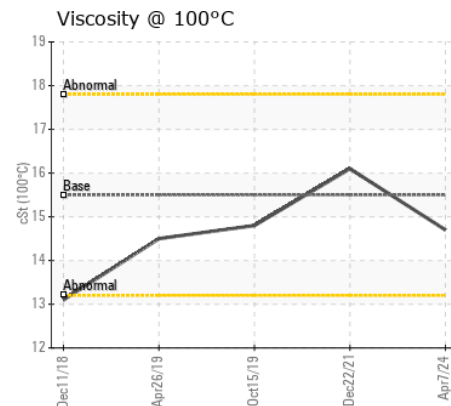
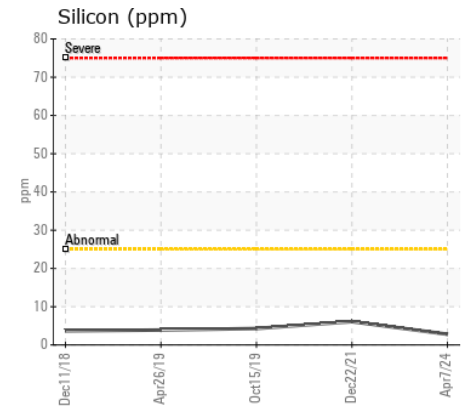
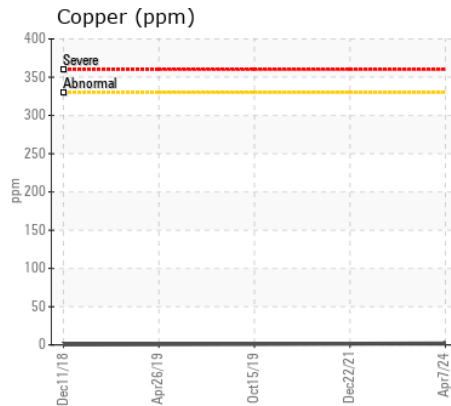
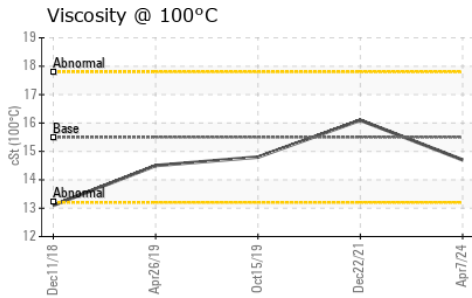
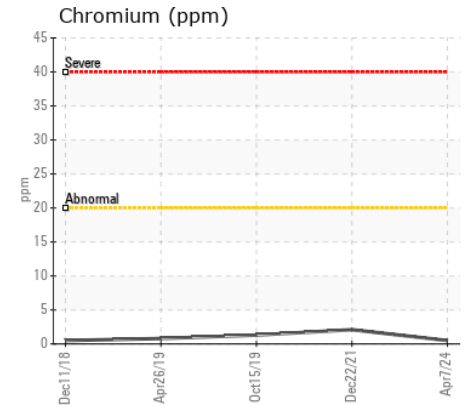
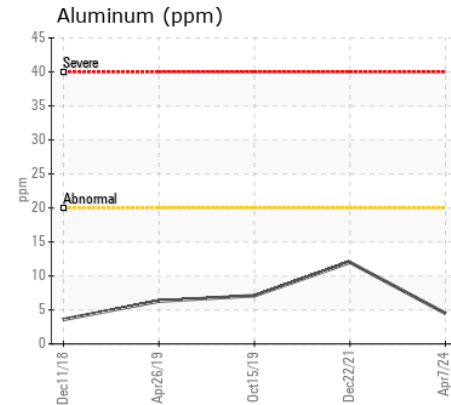
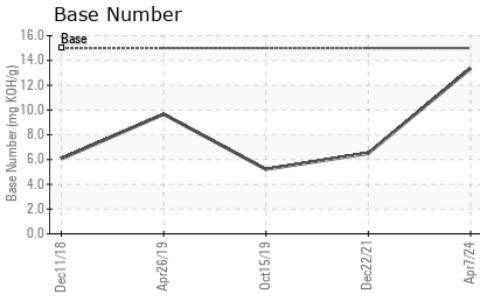
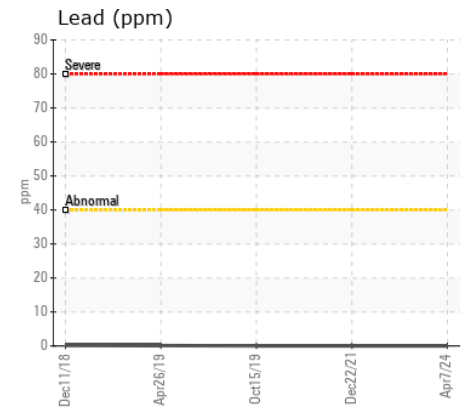
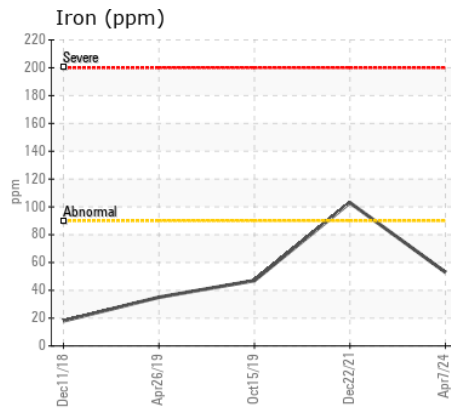
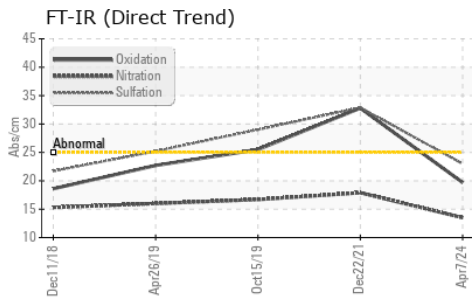
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	3	6	4
Potassium	ppm	ASTM D5185(m)	>20	5	14	10
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	0.0
Soot %	%	ASTM D7844*	>6	0	0.6	0.5
Nitration	Abs/cm	ASTM D7624*	>20	13.5	17.9	16.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	23.0	32.9	29.0
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)		5	4	3
Boron	ppm	ASTM D5185(m)	0	8	6	6
Barium	ppm	ASTM D5185(m)	0	0	0	<1
Molybdenum	ppm	ASTM D5185(m)	0	45	32	35
Manganese	ppm	ASTM D5185(m)		<1	1	<1
Magnesium	ppm	ASTM D5185(m)	900	762	697	689
Calcium	ppm	ASTM D5185(m)	1300	1968	1675	1740
Phosphorus	ppm	ASTM D5185(m)		972	903	849
Zinc	ppm	ASTM D5185(m)	1300	1227	1159	1193
Sulfur	ppm	ASTM D5185(m)	3100	3067	2808	3053
Oxidation	Abs/.1mm	ASTM D7414*	>25	19.7	32.8	25.5
Base Number (BN)	mg KOH/g	ASTM D2896*	15	13.36	6.50	5.21
Visc @ 100°C	cSt	ASTM D7279(m)	15.5	14.7	16.1	14.8



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : TR02628637
Lab Number : 02628637
Unique Number : 5761769
Test Package : MOB 2
Received : 15 Apr 2024
Tested : 16 Apr 2024
Diagnosed : 16 Apr 2024 - Kevin Marson

HUBERT GEORGET
 BOX 598
 WARMAN, SK
 CA S0K 4S0
 Contact: Hubert Georget

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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