



TRAAP

Texas Refinery Advanced Analysis Program

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
DODGE PT-6
 Component
Diesel Engine
 Fluid
TRC MOLY XL PROSPEC III 15W40 (11 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR02616940	TR02579850	TR02562023
Sample Date		Client Info		02 Feb 2024	17 Aug 2023	17 May 2023
Machine Age	kms	Client Info		352179	0	333971
Oil Age	kms	Client Info		20000	24576	16831
Filter Age	kms	Client Info		10000	24576	16831
Oil Changed		Client Info		N/A	Changed	Not Changed
Filter Changed		Client Info		Changed	Not Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>90	82	59	58
Chromium	ppm	ASTM D5185(m)	>20	4	4	4
Nickel	ppm	ASTM D5185(m)	>2	2	1	2
Titanium	ppm	ASTM D5185(m)	>2	0	<1	<1
Silver	ppm	ASTM D5185(m)	>2	<1	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	15	13	16
Lead	ppm	ASTM D5185(m)	>40	1	<1	<1
Copper	ppm	ASTM D5185(m)	>330	4	4	4
Tin	ppm	ASTM D5185(m)	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

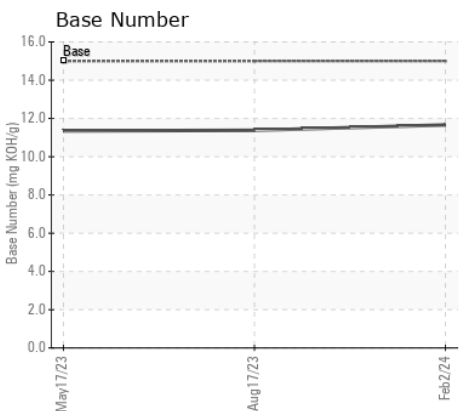
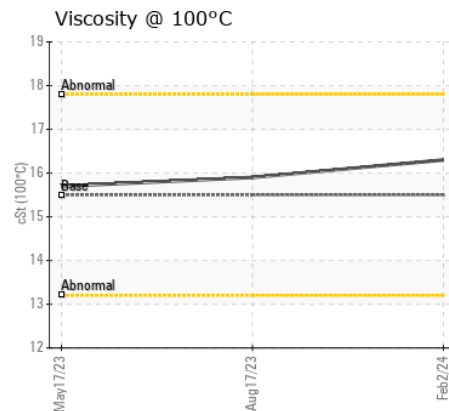
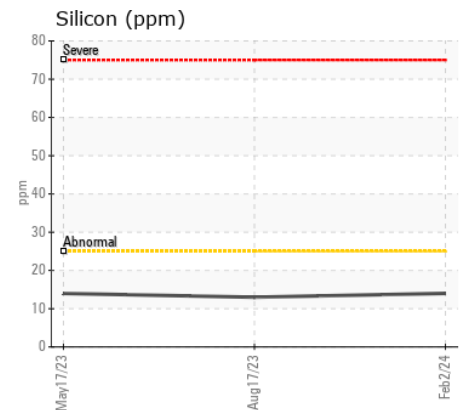
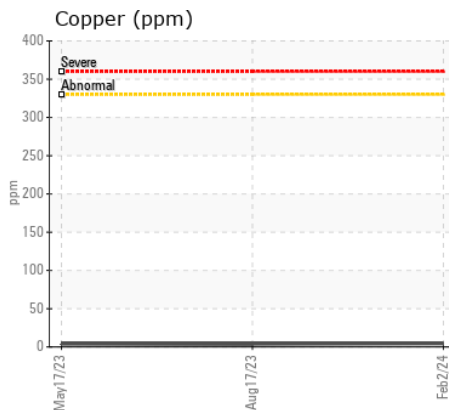
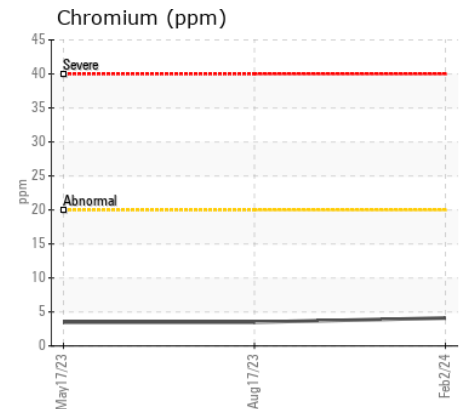
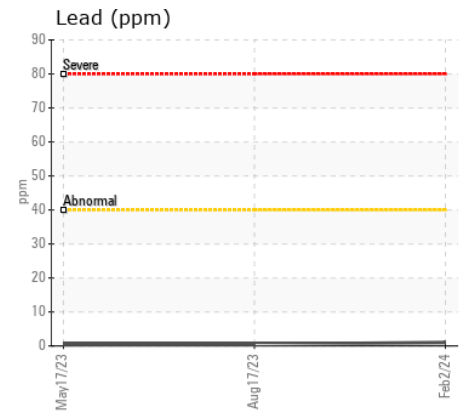
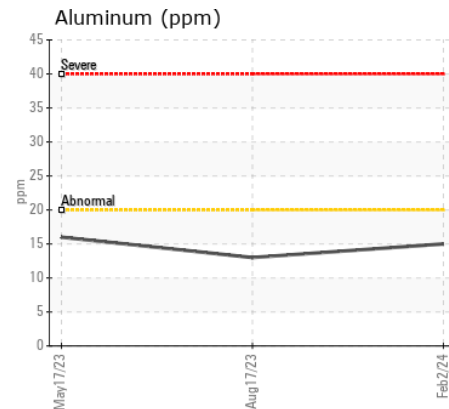
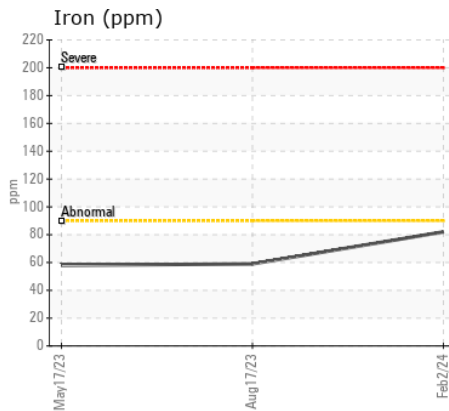
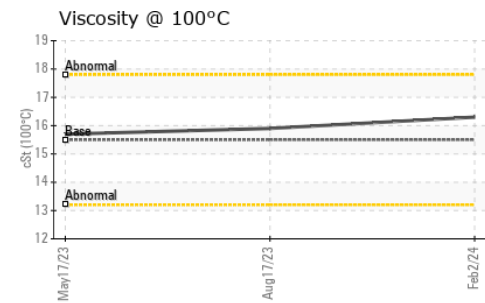
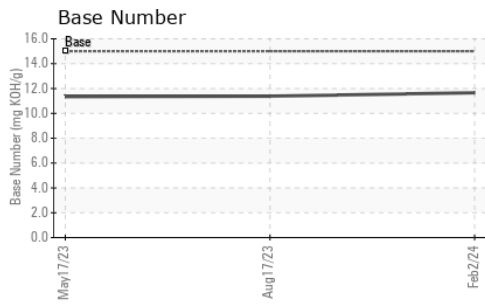
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	14	13	14
Potassium	ppm	ASTM D5185(m)	>20	4	3	4
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>6	2.2	1.6	1.4
Nitration	Abs/cm	ASTM D7624*	>20	14.7	13.4	13.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	27.5	26.3	24.5
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)		8	8	9
Boron	ppm	ASTM D5185(m)		39	46	53
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		125	114	90
Manganese	ppm	ASTM D5185(m)		<1	<1	<1
Magnesium	ppm	ASTM D5185(m)		58	59	74
Calcium	ppm	ASTM D5185(m)	4500	4248	4092	4114
Phosphorus	ppm	ASTM D5185(m)		1078	1076	1110
Zinc	ppm	ASTM D5185(m)	1400	1220	1206	1207
Sulfur	ppm	ASTM D5185(m)		3593	3387	3434
Oxidation	Abs/.1mm	ASTM D7414*	>25	19.7	18.2	19.1
Base Number (BN)	mg KOH/g	ASTM D2896*	15	11.66	11.38	11.35
Visc @ 100°C	cSt	ASTM D7279(m)	15.5	16.3	15.9	15.7



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : TR02616940 **Received** : 21 Feb 2024
Lab Number : 02616940 **Tested** : 22 Feb 2024
Unique Number : 5734050 **Diagnosed** : 22 Feb 2024 - Wes Davis
Test Package : MOB 2

POLAR ENTERPRISE
 BOX 36, GRP 8
 HADASHVILLE, MB
 CA R0E 0X0
 Contact: Trevor Panych

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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