**WEAR CONTAMINATION FLUID CONDITION**  **ABNORMAL MARGINAL ABNORMAL** 

**OIL ANALYSIS REPORT** 

Machine Id

## **DODGE PT-2**

**Diesel Engine** 

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.	Sample Number		Client Info		TR02634517	TR02575829	TR0257136
	Sample Date		Client Info		01 May 2024	27 Jul 2023	04 Jul 202
	Machine Age	kms	Client Info		433320	414485	414474
	Oil Age	kms	Client Info		19100	15	30000
	Filter Age	kms	Client Info		19100	15	15000
	Oil Changed		Client Info		Not Changd	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	N/A
	Sample Status				ABNORMAL	NORMAL	ABNORMA
WEAR	PQ		ASTM D8184*		0		0
Iron ppm levels are abnormal. Cylinder, crank, or cam shaft wear is indicated.	Iron	ppm	ASTM D5185(m)	>90	<u> </u>	14	<b>1</b> 08
	Chromium	ppm	ASTM D5185(m)	>20	2	<1	2
	Nickel	ppm	ASTM D5185(m)	>2	<1	0	<1
	Titanium	ppm	ASTM D5185(m)	>2	0	0	0
	Silver	ppm	ASTM D5185(m)	>2	0	0	0
	Aluminum	ppm	ASTM D5185(m)	>20	6	2	4
	Lead	ppm	ASTM D5185(m)	>40	0	0	0
	Copper	ppm	ASTM D5185(m)	>330	2	<1	2
	Tin	ppm	ASTM D5185(m)	>15	0	0	<1
	Vanadium	ppm	ASTM D5185(m)		0	0	<1
CONTAMINATION	Silicon	ppm	ASTM D5185(m)	>25	5	7	7
Light concentration of carbon/soot present in the oil.	Potassium	ppm	ASTM D5185(m)	>20	<1	<1	2
	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	<b>△</b> 5.2	0.7	<b>△</b> 6.5
	Nitration	Abs/cm	ASTM D7624*	>20	15.2	8.1	29.1
	Sulfation	Abs/.1mm		>30	31.6	19.1	54.0
	Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
LUID CONDITION	Sodium	ppm	ASTM D5185(m)		3	3	3
The BN result indicates that there is suitable alkalinity remaining in the oil. Viscosity of sample indicates oil is within SAE 50 range, advise investigate. The oil is no longer serviceable as a result of the abnormal and/or severe wear.	Boron	ppm	ASTM D5185(m)		49	67	45
	Barium	ppm	ASTM D5185(m)		0	0	0
	Molybdenum	ppm	ASTM D5185(m)		218	206	201
	Manganese	ppm	ASTM D5185(m)		<1	<1	<1
	Magnesium	ppm	ASTM D5185(m)		30	21	22
	Calcium	ppm	ASTM D5185(m)	4500	4560	4371	4303
	Phosphorus	ppm	ASTM D5185(m)		968	1045	1021
	Zinc	ppm	ASTM D5185(m)	1400	1136	1110	1127
	Sulfur	ppm	ASTM D5185(m)		3559	3765	3448

Oxidation

Visc @ 100°C cSt

ASTM D7279(m) 15.5

Base Number (BN) mg KOH/g ASTM D2896\* 15

11.3

14.90

14.9

16.5

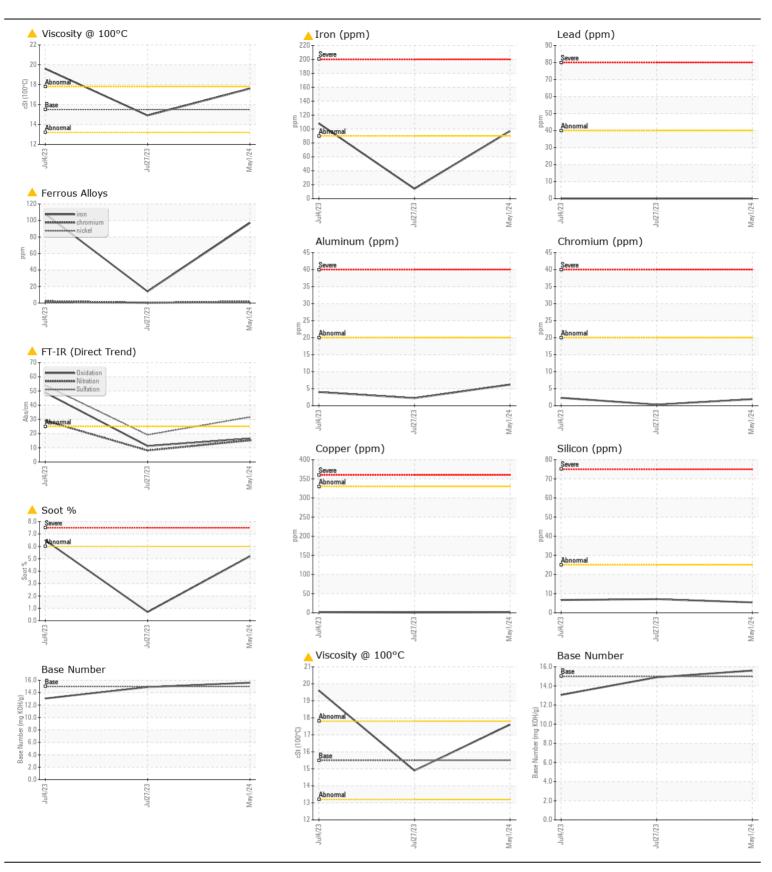
15.60

**17.6** 

**19.6** 

48.9

13.06





CALA ISO 17025:2017 Accredited

Laboratory

Sample No. Lab Number

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9

: 02634517 Unique Number : 5775670 Test Package: MOB 2 (Additional Tests: PQ)

: TR02634517

Received : 10 May 2024 **Tested** Diagnosed

: 10 May 2024

: 13 May 2024 - Kevin Marson

Contact: Trevor Panych T: (204)326-8683

**POLAR ENTERPRISE** 

HADASHVILLE, MB

BOX 36, GRP 8

CA R0E 0X0

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)

Contact/Location: Trevor Panych - POLHAD

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