TRAAP
Texas Refinery Advanced Analysis Program

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
DODGE PT-1
Component
Diesel Engine
Fluid
TRC MOLY XL PROSPEC III 15W40 (13 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

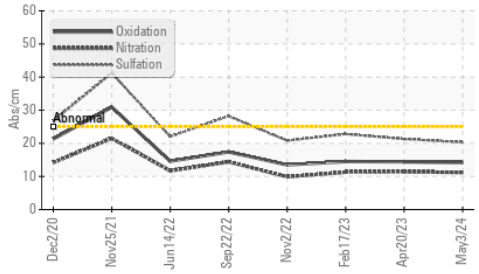
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

FLUID CONDITION

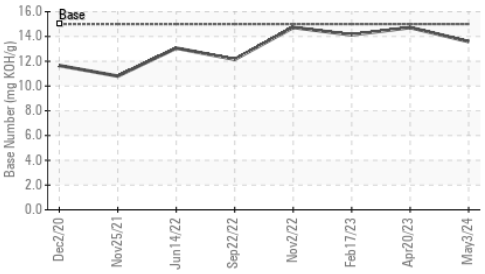
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR02634516	TR02554018	TR02540447
Sample Date		Client Info		03 May 2024	20 Apr 2023	17 Feb 2023
Machine Age	kms	Client Info		204194	500205	499048
Oil Age	kms	Client Info		0	13434	11000
Filter Age	kms	Client Info		0	2157	11000
Oil Changed		Client Info		Changed	Changed	N/A
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185(m)	>90	22	35	36
Chromium	ppm	ASTM D5185(m)	>20	<1	4	4
Nickel	ppm	ASTM D5185(m)	>2	0	1	1
Titanium	ppm	ASTM D5185(m)	>2	0	<1	<1
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	12	7	7
Lead	ppm	ASTM D5185(m)	>40	0	2	2
Copper	ppm	ASTM D5185(m)	>330	1	2	2
Tin	ppm	ASTM D5185(m)	>15	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	<1
Silicon	ppm	ASTM D5185(m)	>25	4	11	11
Potassium	ppm	ASTM D5185(m)	>20	17	3	3
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	0	1.1	1
Nitration	Abs/cm	ASTM D7624*	>20	11.2	11.4	11.3
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.3	21.3	22.8
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
Sodium	ppm	ASTM D5185(m)		3	6	5
Boron	ppm	ASTM D5185(m)		58	54	54
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		191	210	207
Manganese	ppm	ASTM D5185(m)		<1	<1	<1
Magnesium	ppm	ASTM D5185(m)		162	23	22
Calcium	ppm	ASTM D5185(m)	4500	3980	4890	4836
Phosphorus	ppm	ASTM D5185(m)		928	1112	1117
Zinc	ppm	ASTM D5185(m)	1400	1134	1176	1175
Sulfur	ppm	ASTM D5185(m)		3236	3866	3875
Oxidation	Abs/.1mm	ASTM D7414*	>25	14.2	14.4	14.5
Base Number (BN)	mg KOH/g	ASTM D2896*	15	13.59	14.72	14.13
Visc @ 100°C	cSt	ASTM D7279(m)	15.5	14.2	14.9	14.9

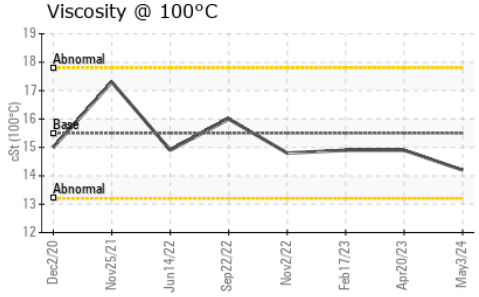
FT-IR (Direct Trend)



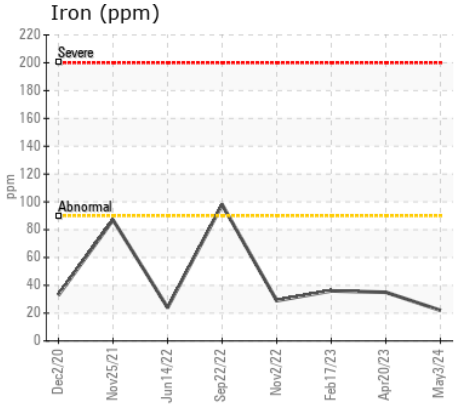
Base Number



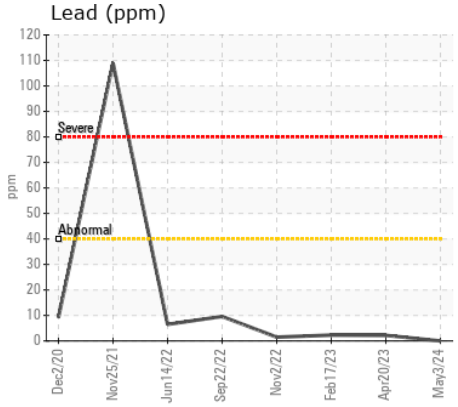
Viscosity @ 100°C



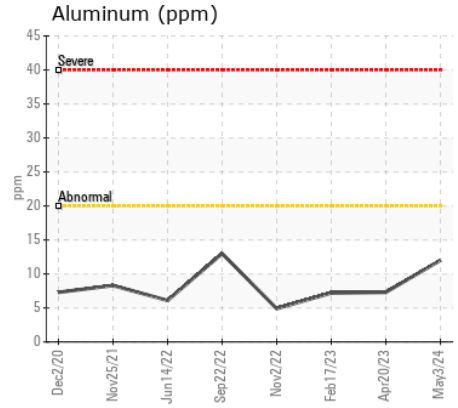
Iron (ppm)



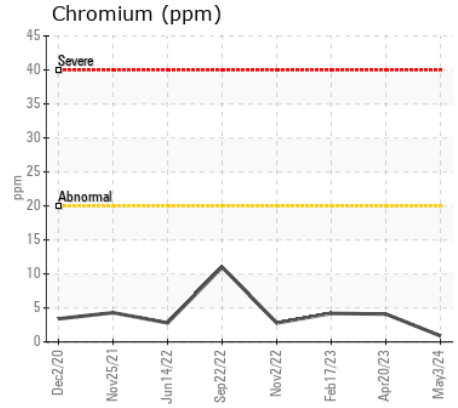
Lead (ppm)



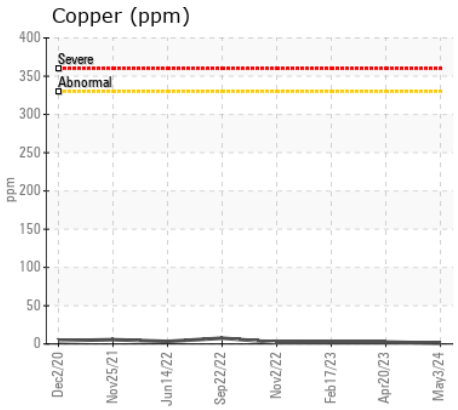
Aluminum (ppm)



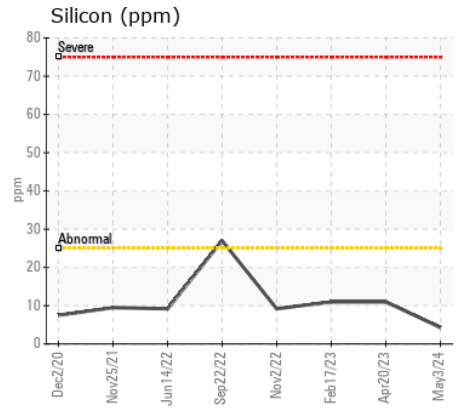
Chromium (ppm)



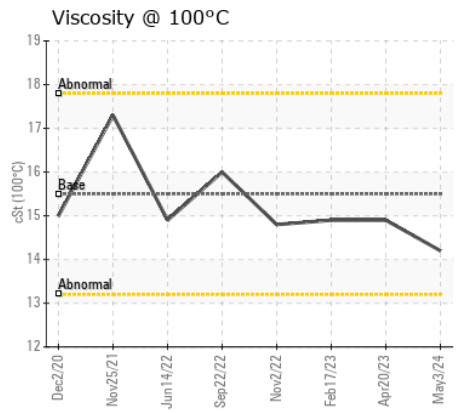
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



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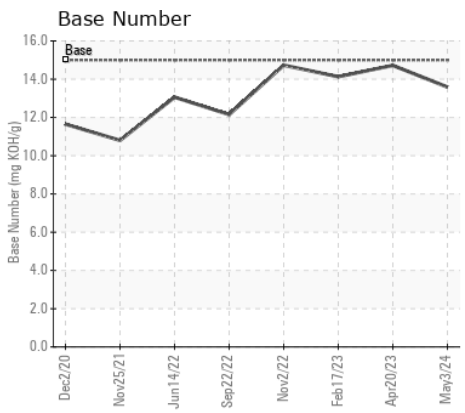

ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : TR02634516
Lab Number : 02634516
Unique Number : 5775669
Test Package : MOB 2

Received : 10 May 2024
Tested : 10 May 2024
Diagnosed : 10 May 2024 - Wes Davis

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)

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

T: (204)326-8683
F: