



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
52000 series
Machine Id
Navistar 52786
Component
Diesel Engine
Fluid
CHEVRON DELO 400 SAE 10W30 (40 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0847632	WC0805666	WC0788095
Sample Date		Client Info		26 Sep 2023	04 Jul 2023	08 Apr 2023
Machine Age	mls	Client Info		547936	518979	494186
Oil Age	mls	Client Info		28341	24795	34806
Filter Age	mls	Client Info		28341	24795	34806
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>90	17	17	29
Chromium	ppm	ASTM D5185(m)	>20	<1	1	1
Nickel	ppm	ASTM D5185(m)	>2	0	0	0
Titanium	ppm	ASTM D5185(m)	>2	0	0	<1
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	6	4	5
Lead	ppm	ASTM D5185(m)	>40	2	2	4
Copper	ppm	ASTM D5185(m)	>330	<1	<1	1
Tin	ppm	ASTM D5185(m)	>15	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

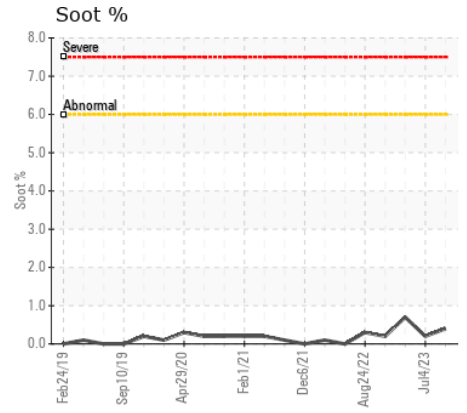
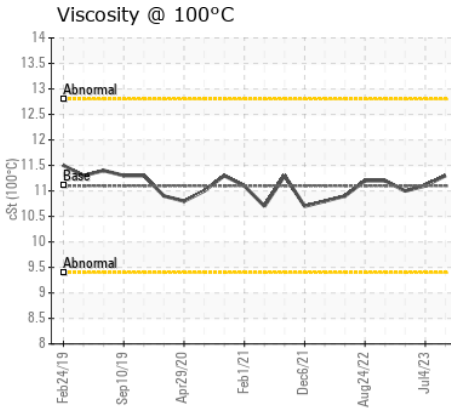
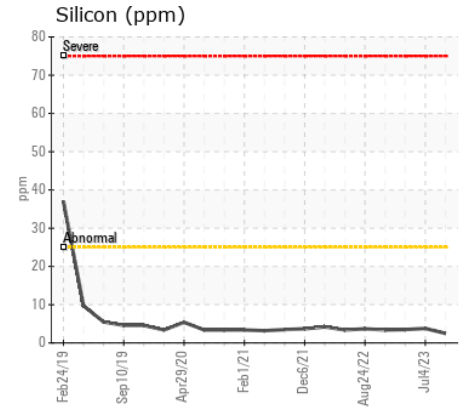
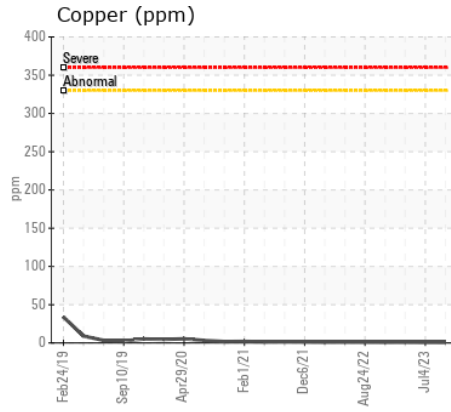
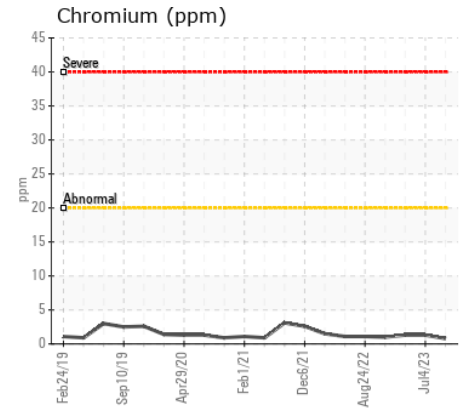
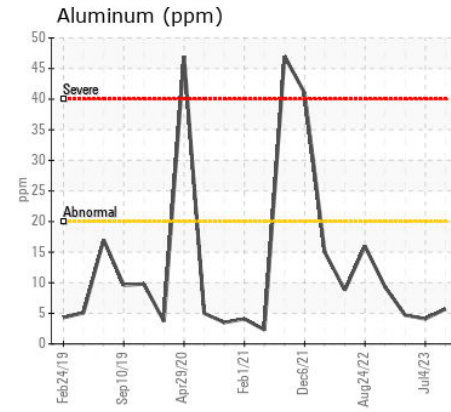
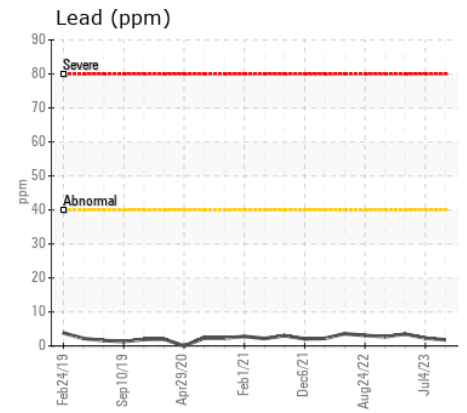
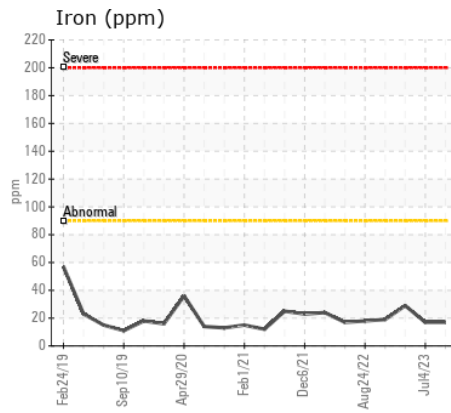
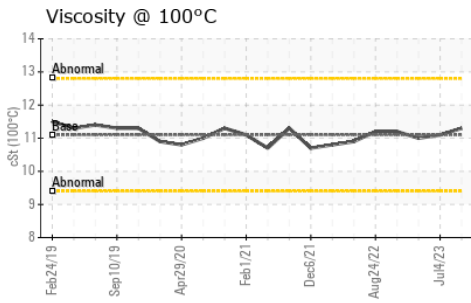
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	2	4	4
Potassium	ppm	ASTM D5185(m)	>20	10	6	6
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	0.4	0.2	0.7
Nitration	Abs/cm	ASTM D7624*	>20	9.5	8.5	10.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.5	20.5	22.2
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		2	2	2
Boron	ppm	ASTM D5185(m)		2	2	6
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		59	57	62
Manganese	ppm	ASTM D5185(m)		0	<1	<1
Magnesium	ppm	ASTM D5185(m)		966	935	985
Calcium	ppm	ASTM D5185(m)		1087	1005	1167
Phosphorus	ppm	ASTM D5185(m)	1260	1004	1028	1097
Zinc	ppm	ASTM D5185(m)	1400	1212	1169	1229
Sulfur	ppm	ASTM D5185(m)		2454	2441	2593
Oxidation	Abs/.1mm	ASTM D7414*	>25	16.9	15.8	18.4
Visc @ 100°C	cSt	ASTM D7279(m)	11.1	11.3	11.1	11.0



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0847632
Lab Number : 02625558
Unique Number : 5750677
Test Package : MOB 1
Received : 01 Apr 2024
Tested : 01 Apr 2024
Diagnosed : 01 Apr 2024 - Wes Davis

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To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.