



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
NAVISTAR 4955
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 10W30 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0844346	WC0828254	WC0732283
Sample Date		Client Info		17 Feb 2024	02 Sep 2023	30 Aug 2022
Machine Age	mls	Client Info		67894	57071	34637
Oil Age	mls	Client Info		10823	9514	12405
Filter Age	mls	Client Info		10823	9514	12405
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>100	36	43	22
Chromium	ppm	ASTM D5185(m)	>20	4	6	1
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	0
Titanium	ppm	ASTM D5185(m)		0	<1	<1
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	5	6	4
Lead	ppm	ASTM D5185(m)	>40	<1	<1	<1
Copper	ppm	ASTM D5185(m)	>330	2	2	4
Tin	ppm	ASTM D5185(m)	>15	0	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

CONTAMINATION

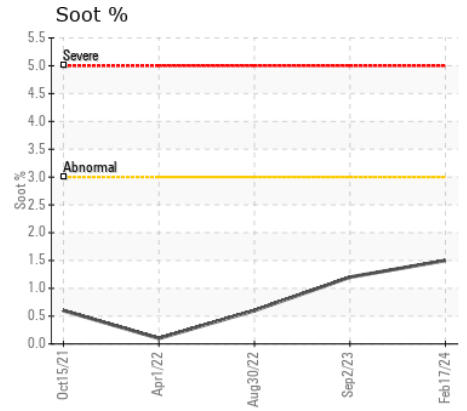
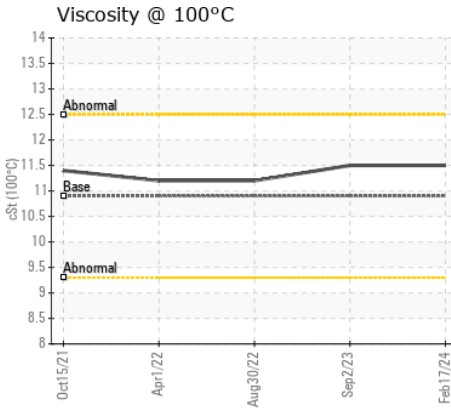
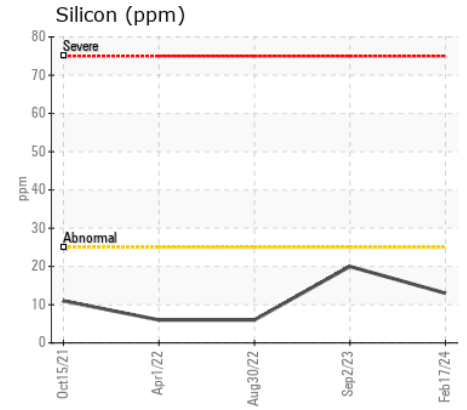
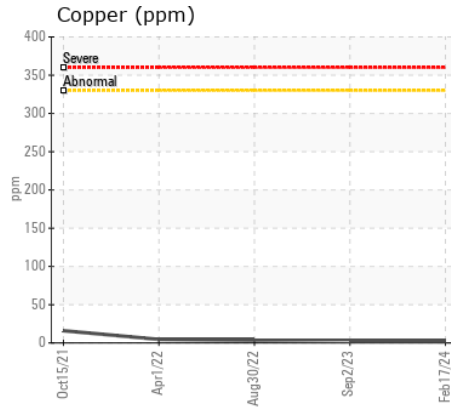
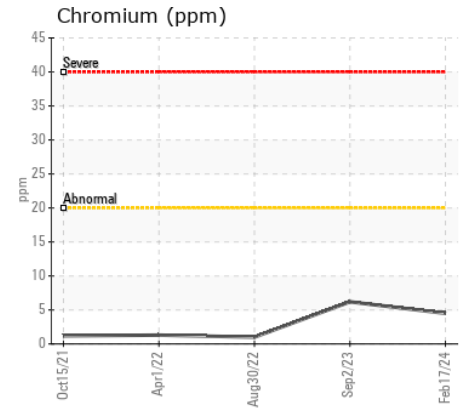
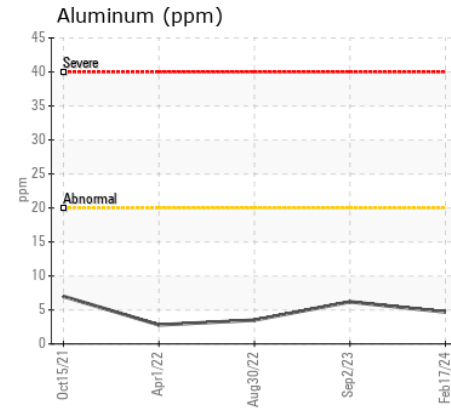
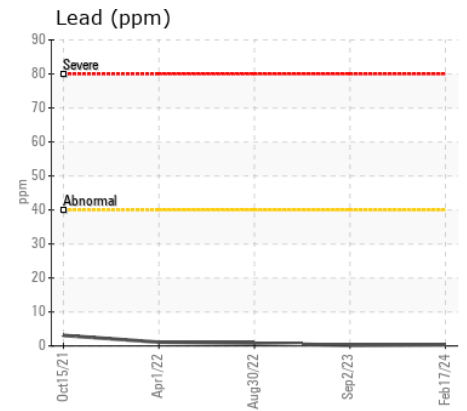
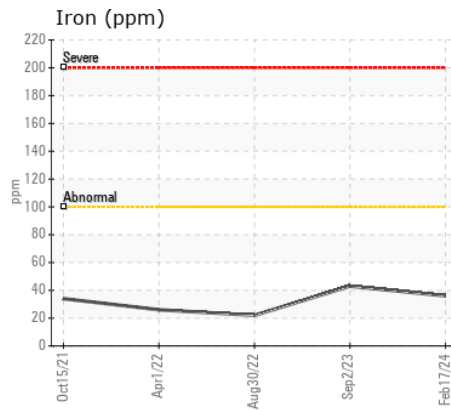
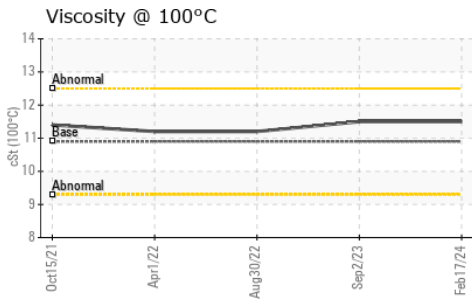
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	13	20	6
Potassium	ppm	ASTM D5185(m)	>20	3	5	7
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	1.5	1.2	0.6
Nitration	Abs/cm	ASTM D7624*	>20	8.0	8.0	5.4
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.9	21.9	15.2
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
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	4	2
Boron	ppm	ASTM D5185(m)	250	6	6	2
Barium	ppm	ASTM D5185(m)	10	0	0	0
Molybdenum	ppm	ASTM D5185(m)	100	61	60	59
Manganese	ppm	ASTM D5185(m)		<1	2	<1
Magnesium	ppm	ASTM D5185(m)	450	956	953	970
Calcium	ppm	ASTM D5185(m)	3000	1075	1018	1098
Phosphorus	ppm	ASTM D5185(m)	1150	1028	1026	1083
Zinc	ppm	ASTM D5185(m)	1350	1159	1158	1203
Sulfur	ppm	ASTM D5185(m)	4250	2726	2529	2581
Oxidation	Abs/.1mm	ASTM D7414*	>25	14.2	14.1	9.5
Visc @ 100°C	cSt	ASTM D7279(m)	10.9	11.5	11.5	11.2



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0844346 **Received** : 21 Feb 2024
Lab Number : 02616914 **Tested** : 21 Feb 2024
Unique Number : 5734024 **Diagnosed** : 21 Feb 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: Visual)

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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.