



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
4000 Series
 Machine Id
Navistar 4297
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 10W30 (16 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0904897	WC0864005	WC0844384
Sample Date		Client Info		11 Feb 2024	27 Oct 2023	08 Aug 2023
Machine Age	kms	Client Info		195195	298238	284624
Oil Age	kms	Client Info		10046	0	0
Filter Age	kms	Client Info		10046	0	0
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	14	11	12
Chromium	ppm	ASTM D5185(m)	>20	<1	0	<1
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	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	7	4	4
Lead	ppm	ASTM D5185(m)	>40	0	<1	0
Copper	ppm	ASTM D5185(m)	>330	<1	<1	<1
Tin	ppm	ASTM D5185(m)	>15	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

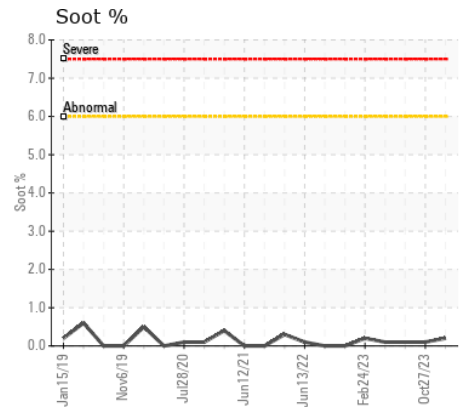
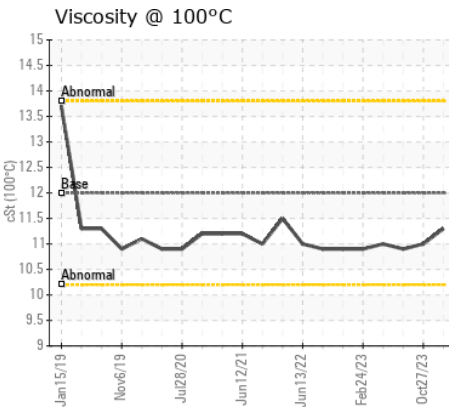
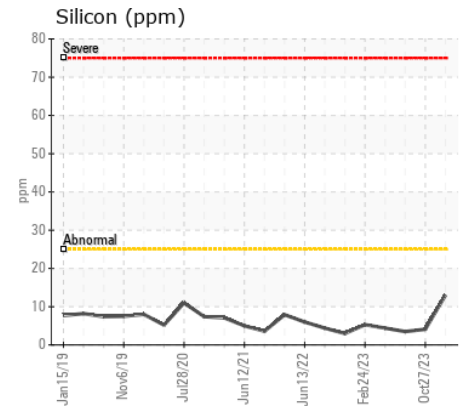
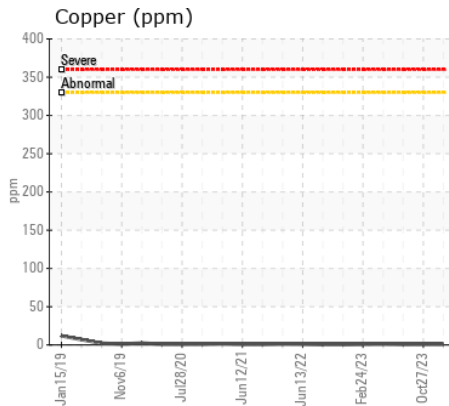
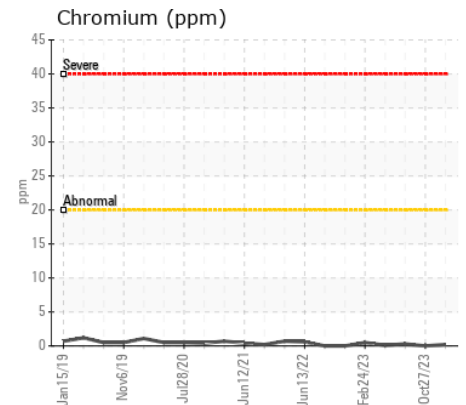
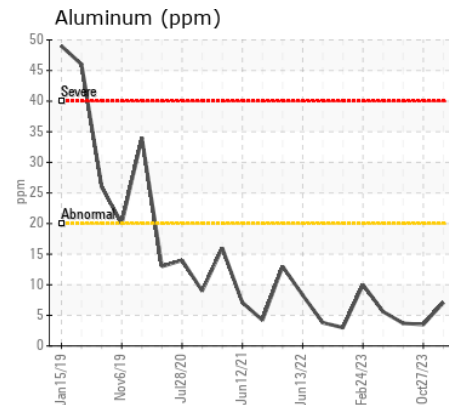
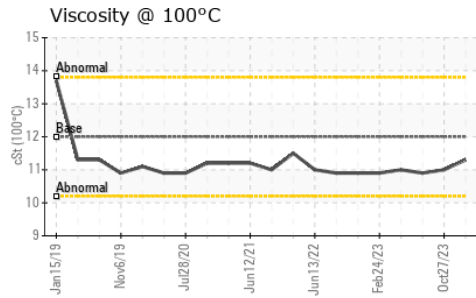
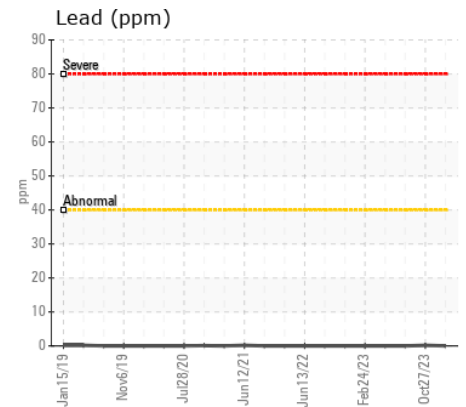
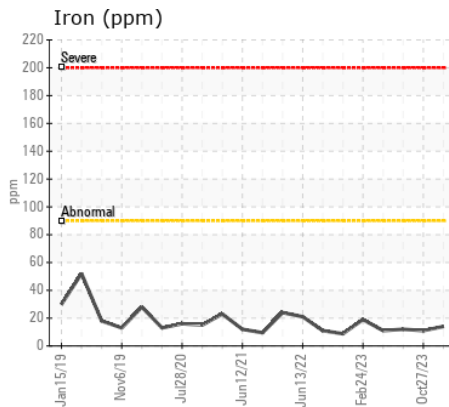
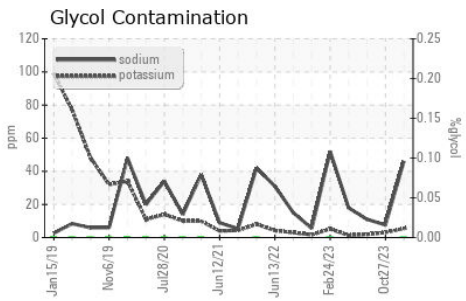
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	13	4	4
Potassium	ppm	ASTM D5185(m)	>20	5	3	2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	ASTM D7922*		0.0	NEG	NEG
Soot %	%	ASTM D7844*	>6	0.2	0.1	0.1
Nitration	Abs/cm	ASTM D7624*	>20	9.0	8.4	8.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.4	19.8	20.5
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)		46	8	11
Boron	ppm	ASTM D5185(m)	2	5	6	4
Barium	ppm	ASTM D5185(m)	0	0	<1	0
Molybdenum	ppm	ASTM D5185(m)	50	60	64	58
Manganese	ppm	ASTM D5185(m)	0	0	0	<1
Magnesium	ppm	ASTM D5185(m)	950	978	1036	961
Calcium	ppm	ASTM D5185(m)	1050	1083	1144	1033
Phosphorus	ppm	ASTM D5185(m)	995	1056	1082	1060
Zinc	ppm	ASTM D5185(m)	1180	1200	1297	1180
Sulfur	ppm	ASTM D5185(m)	2600	2739	2745	2530
Oxidation	Abs/.1mm	ASTM D7414*	>25	16.4	17.1	16.8
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	11.3	11.0	10.9



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0904897 **Received** : 21 Feb 2024
Lab Number : 02616917 **Tested** : 22 Feb 2024
Unique Number : 5734027 **Diagnosed** : 22 Feb 2024 - Kevin Marson
Test Package : MOB 1 (Additional Tests: Glycol)

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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.