



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		WC0904859	WC0904897	WC0864005
Sample Date		Client Info		23 Apr 2024	11 Feb 2024	27 Oct 2023
Machine Age	kms	Client Info		326215	195195	298238
Oil Age	kms	Client Info		0	10046	0
Filter Age	kms	Client Info		0	10046	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	12	14	11
Chromium	ppm	ASTM D5185(m)	>20	0	<1	0
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	0
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	4	7	4
Lead	ppm	ASTM D5185(m)	>40	0	0	<1
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

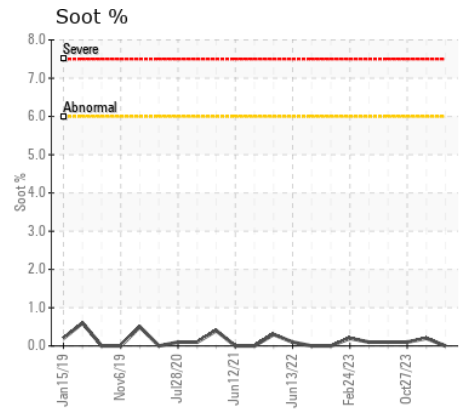
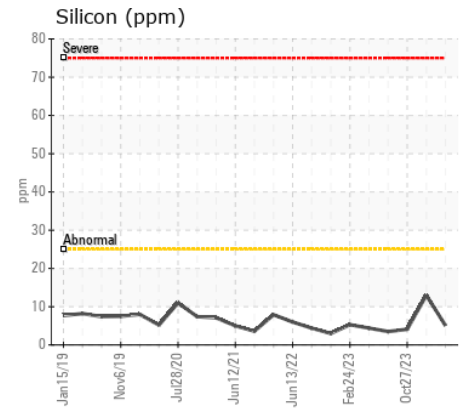
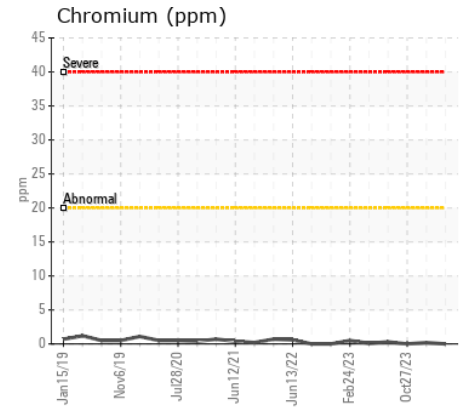
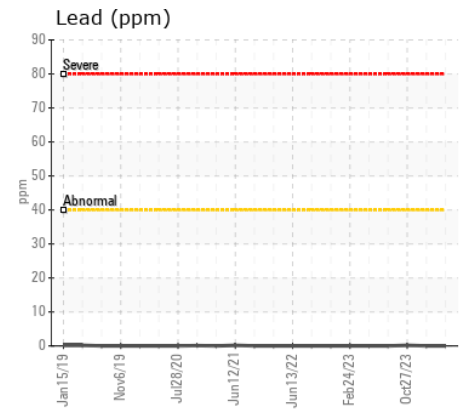
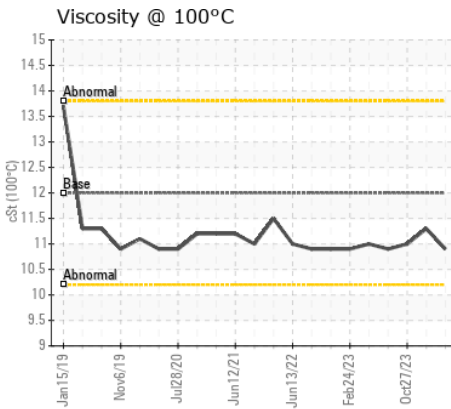
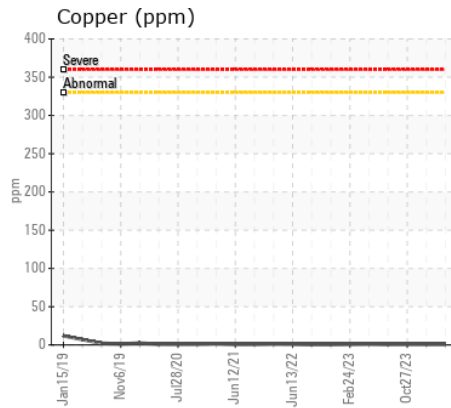
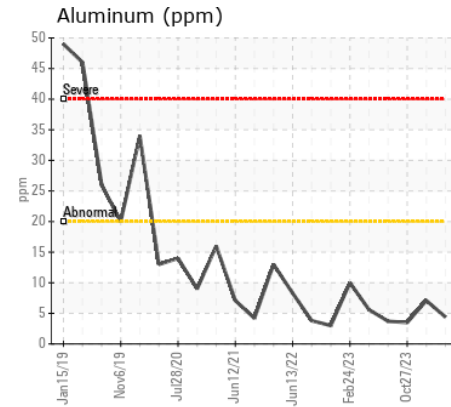
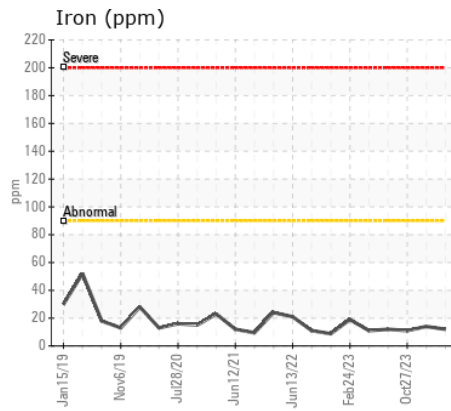
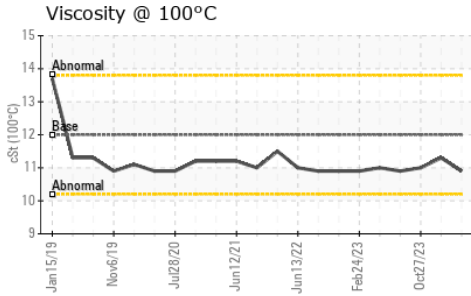
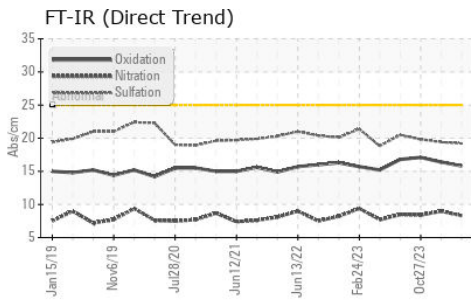
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	5	13	4
Potassium	ppm	ASTM D5185(m)	>20	2	5	3
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	0.0	NEG
Soot %	%	ASTM D7844*	>6	0	0.2	0.1
Nitration	Abs/cm	ASTM D7624*	>20	8.3	9.0	8.4
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.2	19.4	19.8
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)		27	46	8
Boron	ppm	ASTM D5185(m)	2	7	5	6
Barium	ppm	ASTM D5185(m)	0	0	0	<1
Molybdenum	ppm	ASTM D5185(m)	50	61	60	64
Manganese	ppm	ASTM D5185(m)	0	<1	0	0
Magnesium	ppm	ASTM D5185(m)	950	986	978	1036
Calcium	ppm	ASTM D5185(m)	1050	1082	1083	1144
Phosphorus	ppm	ASTM D5185(m)	995	1057	1056	1082
Zinc	ppm	ASTM D5185(m)	1180	1230	1200	1297
Sulfur	ppm	ASTM D5185(m)	2600	2622	2739	2745
Oxidation	Abs/.1mm	ASTM D7414*	>25	15.8	16.4	17.1
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	10.9	11.3	11.0



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0904859
Lab Number : 02632300
Unique Number : 5773453
Test Package : MOB 1
Received : 30 Apr 2024
Tested : 30 Apr 2024
Diagnosed : 30 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.