



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
56000 series
 Machine Id
Navistar 56154
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 10W30 (40 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0904883	WC0854807	WC0844395
Sample Date		Client Info		03 May 2024	30 Dec 2023	14 Aug 2023
Machine Age	mls	Client Info		464728	694937	397305
Oil Age	mls	Client Info		30000	34507	34657
Filter Age	mls	Client Info		30000	34507	34657
Oil Changed		Client Info		N/A	N/A	Changed
Filter Changed		Client Info		N/A	N/A	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	39	3	24
Chromium	ppm	ASTM D5185(m)	>20	2	0	2
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	3	1	3
Lead	ppm	ASTM D5185(m)	>40	<1	0	<1
Copper	ppm	ASTM D5185(m)	>330	6	<1	4
Tin	ppm	ASTM D5185(m)	>15	0	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

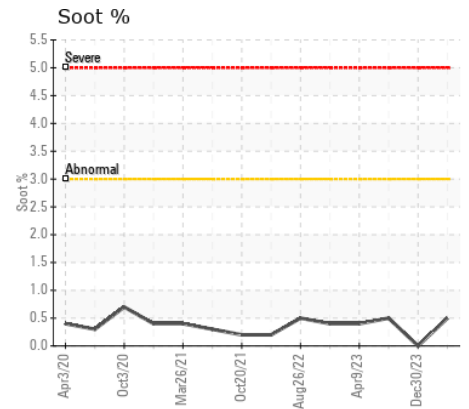
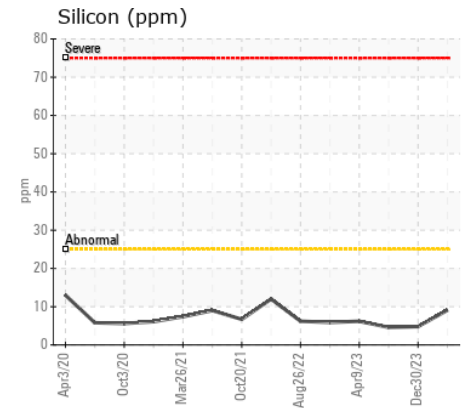
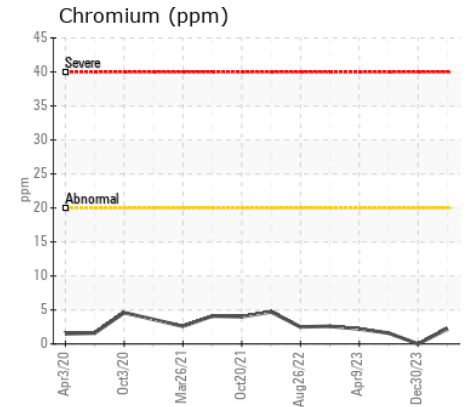
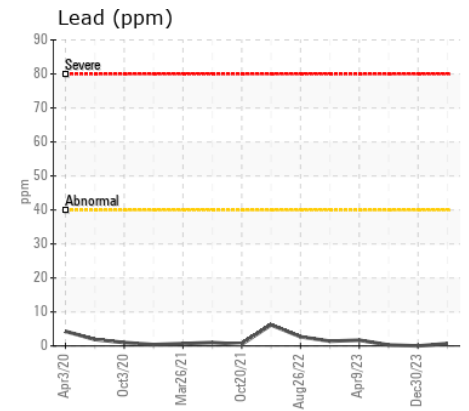
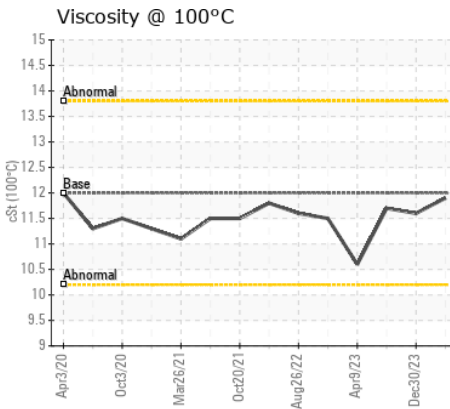
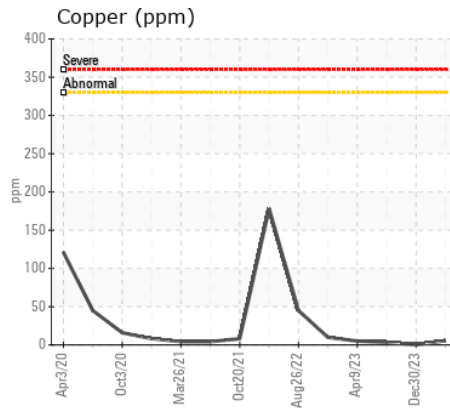
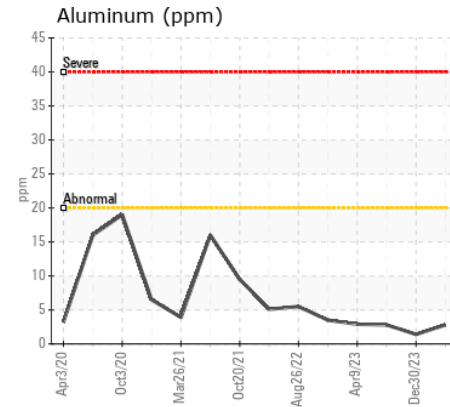
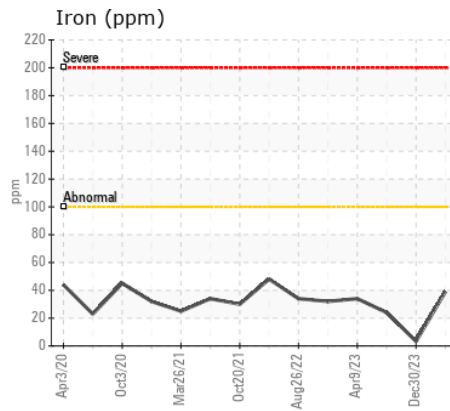
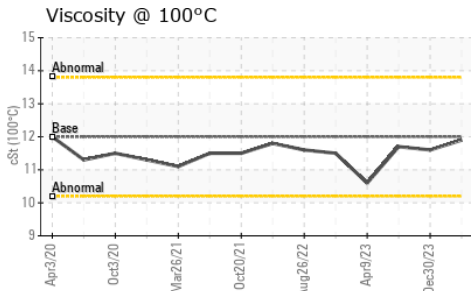
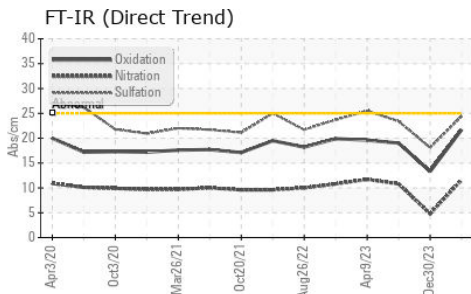
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	9	5	5
Potassium	ppm	ASTM D5185(m)	>20	2	11	4
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	0.0	0.0
Soot %	%	ASTM D7844*	>3	0.5	0	0.5
Nitration	Abs/cm	ASTM D7624*	>20	11.6	4.8	10.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	24.4	18.1	23.4
Emulsified Water	scalar	Visual*	>0.2	NEG	.2%	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		4	1	3
Boron	ppm	ASTM D5185(m)	2	2	6	2
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	50	68	55	64
Manganese	ppm	ASTM D5185(m)	0	<1	0	<1
Magnesium	ppm	ASTM D5185(m)	950	1087	920	1029
Calcium	ppm	ASTM D5185(m)	1050	1179	994	1109
Phosphorus	ppm	ASTM D5185(m)	995	1074	989	1051
Zinc	ppm	ASTM D5185(m)	1180	1310	1121	1236
Sulfur	ppm	ASTM D5185(m)	2600	2538	2719	2533
Oxidation	Abs/.1mm	ASTM D7414*	>25	21.7	13.3	19.0
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	11.9	11.6	11.7



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0904883
Lab Number : 02635219
Unique Number : 5776372
Test Package : MOB 1

Received : 14 May 2024
Tested : 14 May 2024
Diagnosed : 14 May 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.