



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
52000 series
Machine Id
Navistar 52707
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		WC0893705	WC0857732	WC0805680
Sample Date		Client Info		02 Mar 2024	06 Oct 2023	04 Jun 2023
Machine Age	kms	Client Info		635706	612418	588322
Oil Age	kms	Client Info		23288	34096	20611
Filter Age	kms	Client Info		23288	34096	20611
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)	>165	20	18	17
Chromium	ppm	ASTM D5185(m)	>5	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	0	<1	0
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	2	2	2
Lead	ppm	ASTM D5185(m)	>150	1	4	3
Copper	ppm	ASTM D5185(m)	>90	1	<1	1
Tin	ppm	ASTM D5185(m)	>5	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

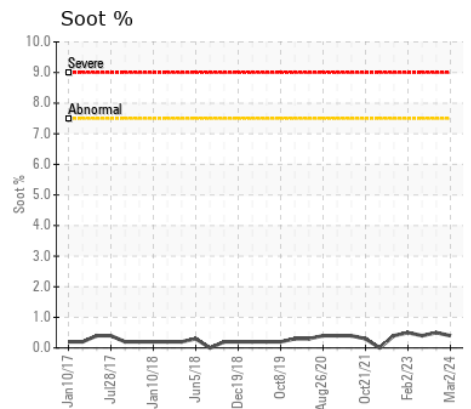
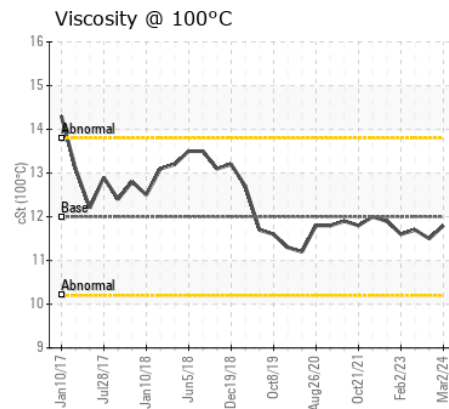
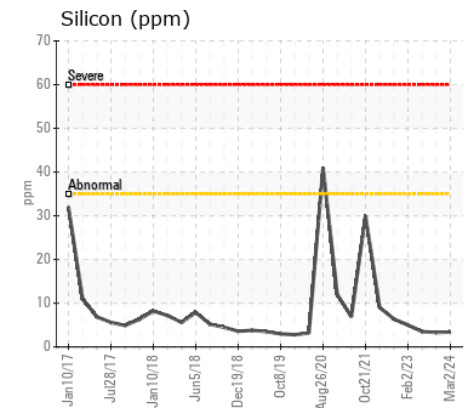
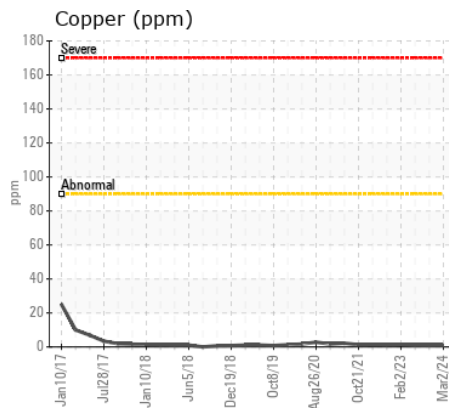
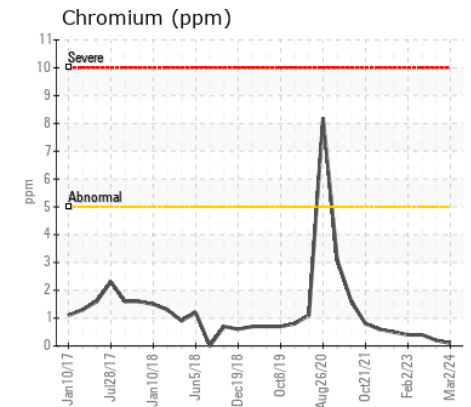
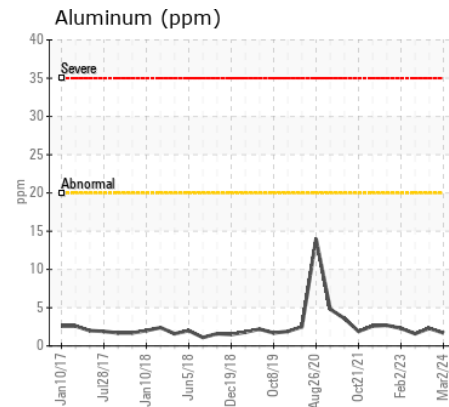
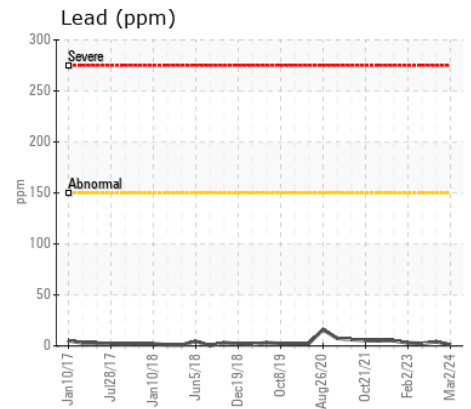
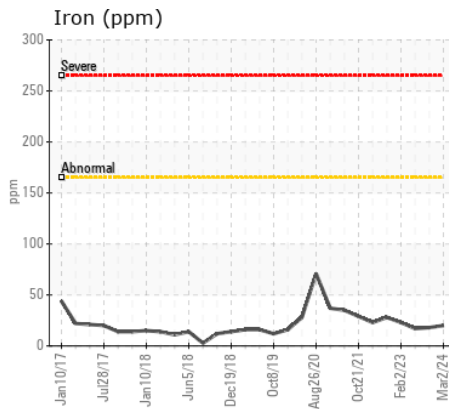
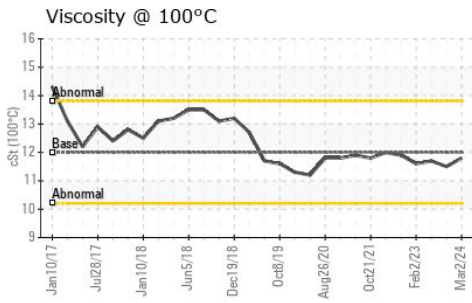
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>35	3	3	4
Potassium	ppm	ASTM D5185(m)	>20	2	3	2
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*	>7.5	0.4	0.5	0.4
Nitration	Abs/cm	ASTM D7624*	>20	10.0	10.0	10.4
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.0	21.5	21.7
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	3
Boron	ppm	ASTM D5185(m)	2	2	2	5
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	50	62	61	62
Manganese	ppm	ASTM D5185(m)	0	0	0	<1
Magnesium	ppm	ASTM D5185(m)	950	1033	991	1006
Calcium	ppm	ASTM D5185(m)	1050	1113	1119	1076
Phosphorus	ppm	ASTM D5185(m)	995	1045	1055	1096
Zinc	ppm	ASTM D5185(m)	1180	1247	1249	1225
Sulfur	ppm	ASTM D5185(m)	2600	2543	2679	2559
Oxidation	Abs/.1mm	ASTM D7414*	>25	17.9	17.9	17.8
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	11.8	11.5	11.7



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0893705
Lab Number : 02625561
Unique Number : 5750680
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.