



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
4000 Series
 Machine Id
Navistar 4275
 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		WC0892072	WC0828196	WC0665339
Sample Date		Client Info		29 Feb 2024	01 Aug 2023	28 Feb 2022
Machine Age	kms	Client Info		171903	100341	83122
Oil Age	kms	Client Info		10420	5725	12666
Filter Age	kms	Client Info		10420	5725	12666
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	ABNORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>130	2	15	30
Chromium	ppm	ASTM D5185(m)	>10	0	<1	1
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	▲ 3	0
Aluminum	ppm	ASTM D5185(m)	>20	2	4	11
Lead	ppm	ASTM D5185(m)	>20	0	0	0
Copper	ppm	ASTM D5185(m)	>125	<1	1	2
Tin	ppm	ASTM D5185(m)	>4	0	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

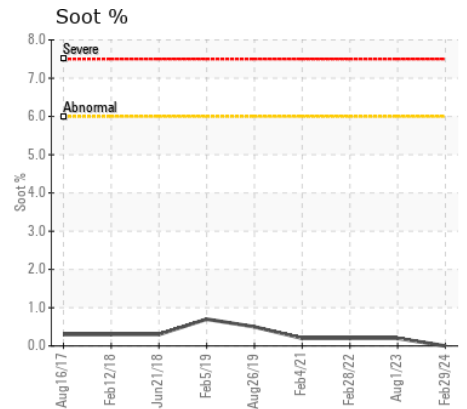
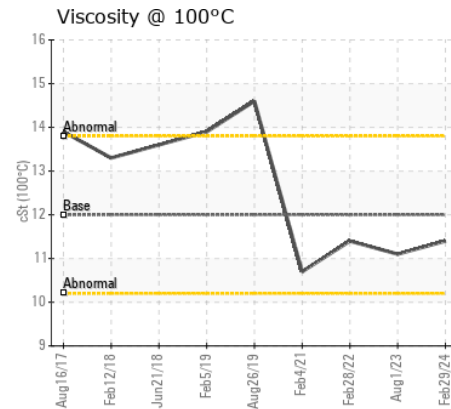
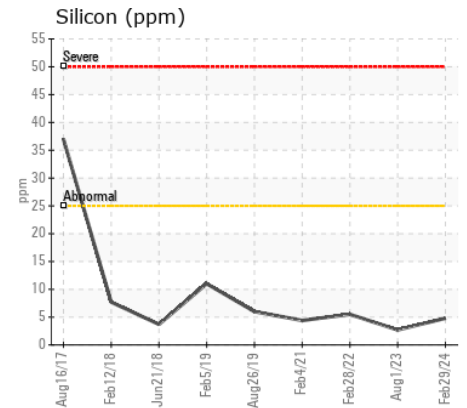
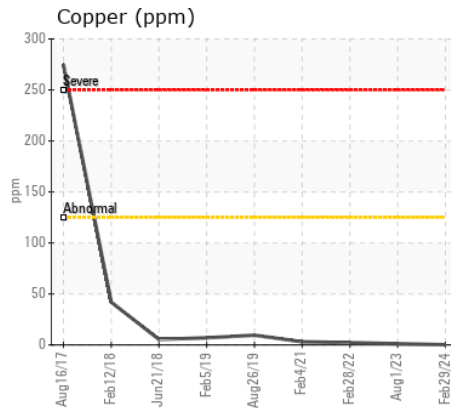
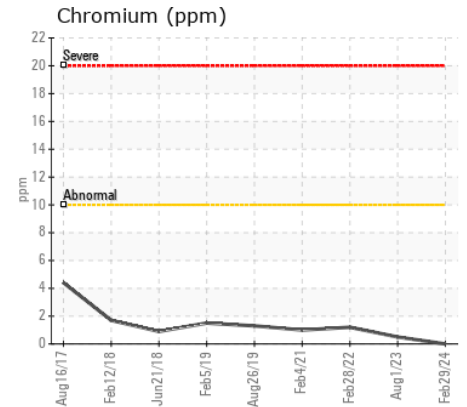
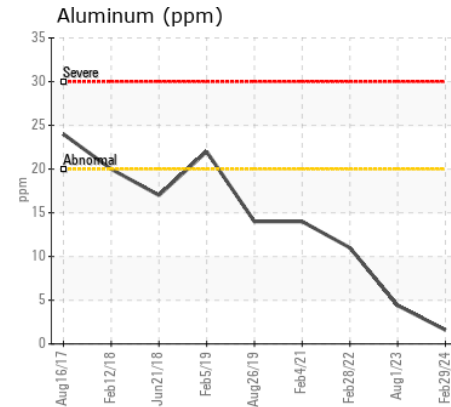
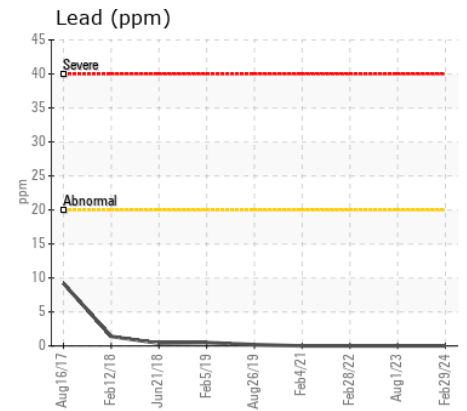
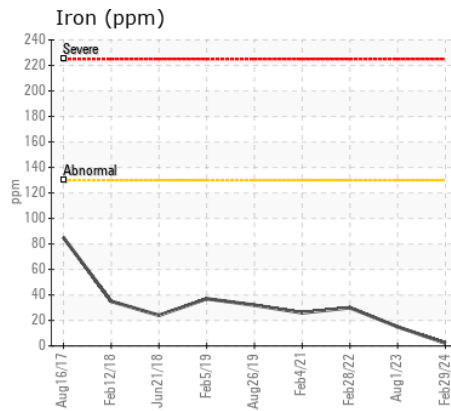
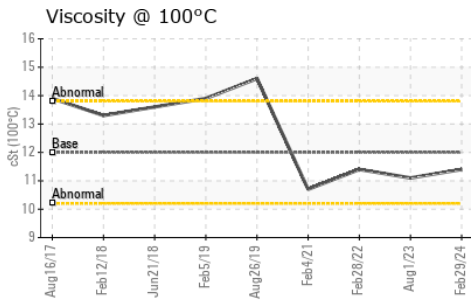
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	5	3	6
Potassium	ppm	ASTM D5185(m)	>20	<1	4	14
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*	>6	0	0.2	0.2
Nitration	Abs/cm	ASTM D7624*	>20	4.5	7.2	9.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	17.6	19.3	21.0
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)		<1	2	2
Boron	ppm	ASTM D5185(m)	2	9	7	3
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	50	57	60	62
Manganese	ppm	ASTM D5185(m)	0	0	<1	<1
Magnesium	ppm	ASTM D5185(m)	950	928	971	1041
Calcium	ppm	ASTM D5185(m)	1050	1020	1027	1078
Phosphorus	ppm	ASTM D5185(m)	995	1007	1060	1118
Zinc	ppm	ASTM D5185(m)	1180	1134	1180	1269
Sulfur	ppm	ASTM D5185(m)	2600	2733	2567	2610
Oxidation	Abs/.1mm	ASTM D7414*	>25	12.9	14.2	16.4
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	11.4	11.1	11.4



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0892072
Lab Number : 02618861
Unique Number : 5735971
Test Package : MOB 1
Received : 29 Feb 2024
Tested : 29 Feb 2024
Diagnosed : 29 Feb 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.