WEAR CONTAMINATION FLUID CONDITION

NORMAL ABNORMAL ABNORMAL

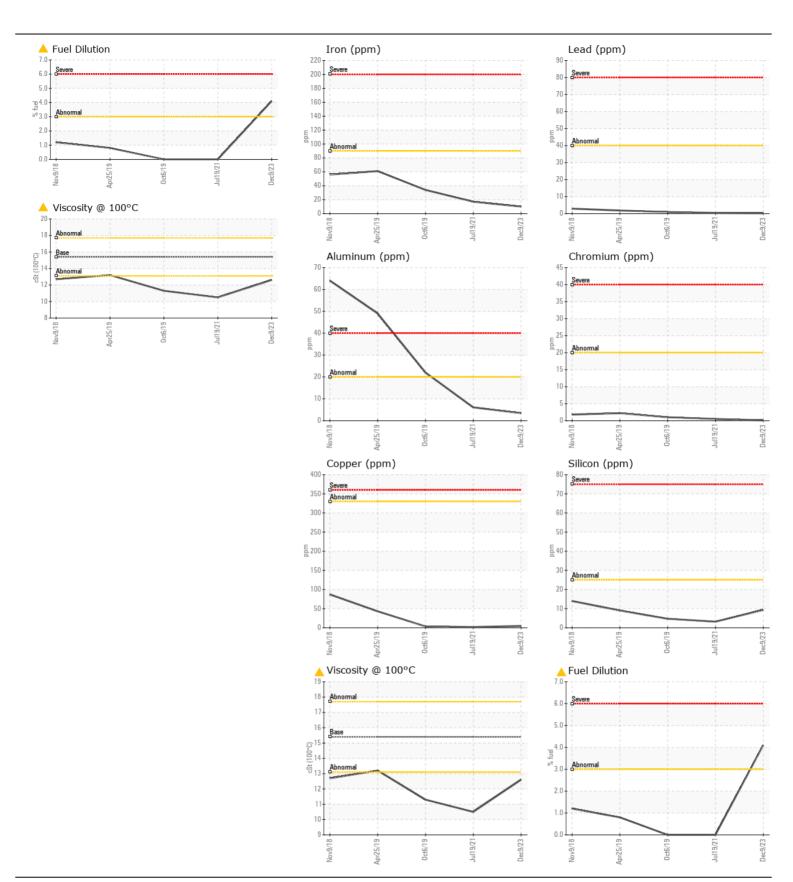
3000 series Navistar 3246

Component Diesel Engine

PETRO CANADA DURON SHP 15W40 (26 LTR)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.	Sample Number		Client Info		WC0501647	WC0575158	WC0390859
	Sample Date		Client Info		09 Dec 2023	19 Jul 2021	06 Oct 2019
	Machine Age	mls	Client Info		226958	183429	222433
	Oil Age	mls	Client Info		0	5200	0
	Filter Age	mls	Client Info		0	5200	0
	Oil Changed		Client Info		N/A	Changed	Changed
	Filter Changed		Client Info		N/A	Changed	Changed
	Sample Status				ABNORMAL	NORMAL	NORMAL
WEAR	Iron	nnm	ASTM D5185(m)	>90	10	17	34
All component wear rates are normal.	Chromium	ppm	ASTM D5185(m)		<1	<1	1
	Nickel	ppm	ASTM D5185(m)	>2	0	<1	<1
	Titanium	ppm	ASTM D5185(m)		0	0	<1
	Silver	ppm	ASTM D5185(m)		0	<1	<1
	Aluminum	ppm	ASTM D5185(m)	>20	3	6	22
	Lead	ppm	ASTM D5185(m)	>40	<1	<1	<1
	Copper	ppm	ASTM D5185(m)		5	2	4
	Tin	ppm	ASTM D5185(m)		<1	<1	<1
	Vanadium	ppm	ASTM D5185(m)		0	0	0
CONTAMINATION			40TH B= (0= ()				
There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.	Silicon	ppm	ASTM D5185(m)		9	3	5
	Potassium	ppm	ASTM D5185(m)		1	4	32
	Fuel	%	ASTM D7593*	>3.0	▲ 4.1	<1.0	<1.0
	Water		WC Method WC Method	>0.2	NEG NEG	NEG NEG	NEG 0.0
	Glycol Soot %	%	ASTM D7844*	<u> </u>	0.3	0.3	0.4
	Nitration	Abs/cm	ASTM D7644*	>20	9.4	11.2	10.7
	Sulfation	Abs/.1mm	ASTM D7415*	>30	19.3	23.6	24.5
	Emulsified Water		Visual*	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185(m)		<1	1	2
Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.	Boron	ppm	ASTM D5185(m)		8	7	3
	Barium	ppm	ASTM D5185(m)		0	0	0
	Molybdenum	ppm	ASTM D5185(m)		56	49	60
	Manganese	ppm	ASTM D5185(m)		0	<1	<1
	Magnesium	ppm	ASTM D5185(m)		862	782	981
	Calcium	ppm	ASTM D5185(m)		955	970	1076
	Phosphorus	ppm	ASTM D5185(m)		924	877	1011
	Zinc	ppm	ASTM D5185(m)	1270	1077	999	1224
	Sulfur	ppm Abo/ 1mm	ASTM D5185(m)		2524	2178	2527
	Oxidation	ADS/.IMM	ASTM D7414*	>25	15.5	25.6	20.5

10.5

12.6







Laboratory Sample No. Lab Number **Unique Number**

: WC0501647

: 02607697 : 5708783

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Recieved Diagnosed

: 11 Jan 2024 Diagnostician : Wes Davis **Test Package**: MOB 1 (Additional Tests: FuelDilution, PercentFuel)

: 10 Jan 2024

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.

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