

OIL ANALYSIS REPORT

Area 56000 series Navistar 56156

Diesel Engine Fluid

PETRO CANADA DURON SHP 10W30 (40 LTR)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

Fluid Condition

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

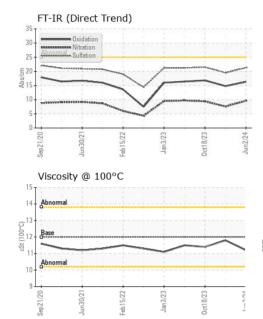
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TR)		Sep2020	Jun2021 Feb2022	Jan2023 Oct2023	Jun2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0948297	WC0844370	WC0864024
Sample Date		Client Info		02 Jun 2024	11 Feb 2024	18 Oct 2023
Machine Age	mls	Client Info		441195	654501	377528
Oil Age	mls	Client Info		34508	46928	34656
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATIO	N	method	limit/base	current	history1	history2
Fuel		WC Method	>2.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	0.0
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	41	31	53
Chromium	ppm	ASTM D5185(m)	>20	3	2	4
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	2
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	5	3	4
_ead	ppm	ASTM D5185(m)	>40	3	<1	<1
Copper	ppm	ASTM D5185(m)	>330	125	9	8
Tin	ppm	ASTM D5185(m)	>15	0	<1	<1
Antimony	ppm	ASTM D5185(m)		0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	2	3	6	1
Barium	ppm	ASTM D5185(m)	0	<1	1	0
Molybdenum	ppm	ASTM D5185(m)	50	64	64	65
Vanganese	ppm	ASTM D5185(m)	0	2	4	<1
Magnesium	ppm	ASTM D5185(m)	950	1016	978	1005
Calcium	ppm	ASTM D5185(m)	1050	1110	1116	1118
Phosphorus	ppm	ASTM D5185(m)	995	1001	1055	1031
Zinc	ppm	ASTM D5185(m)	1180	1226	1196	1267
Sulfur	ppm	ASTM D5185(m)	2600	2282	2773	2463
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS	5	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	6	21	10
Sodium	ppm	ASTM D5185(m)		4	7	15
Potassium	ppm	ASTM D5185(m)	>20	6	4	6
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.9	0.4	0.8
Nitration	Abs/cm	ASTM D7624*	>20	9.6	7.6	9.4
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.3	19.5	21.5

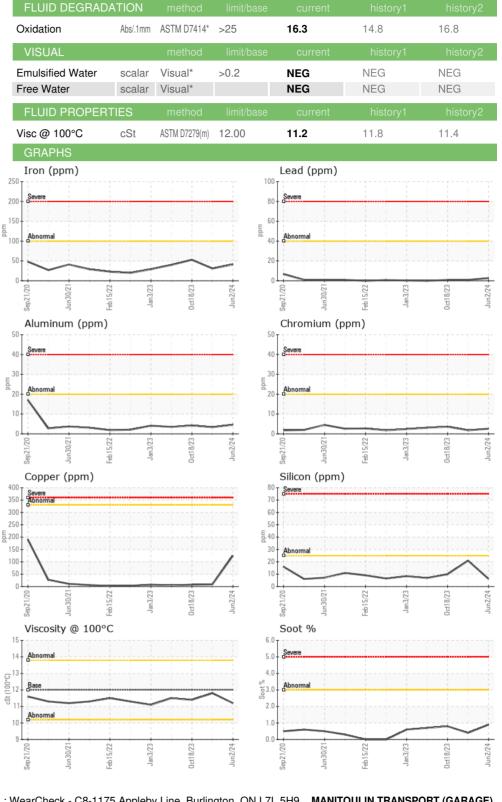
Sample Rating Trend

NORMAL



OIL ANALYSIS REPORT





Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 MANITOULIN TRANSPORT (GARAGE) CALA Sample No. : WC0948297 Received : 11 Jun 2024 1335 SHAWSON DRIVE Lab Number : 02641041 Tested : 11 Jun 2024 MISSISSAUGA, ON ISO 17025:2017 Accredited Laboratory Unique Number : 5798580 Diagnosed : 11 Jun 2024 - Wes Davis CA L4W 1C4 Test Package : MOB 1 Contact: Travis Spence To discuss this sample report, contact Customer Service at 1-800-268-2131. tspence@manitoulintransport.com Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. T: Validity of results and interpretation are based on the sample and information as supplied. F: (905)564-6361

Report Id: MANMIS [WCAMIS] 02641041 (Generated: 06/11/2024 14:49:12) Rev: 1

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Contact/Location: Travis Spence - MANMIS Page 2 of 2