

OIL ANALYSIS REPORT

I VSIS REDORT Sample Rating Trend

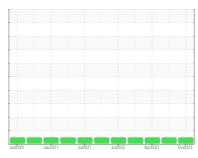
56000 series Machine Id Toronto Navistar 56155

Component

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

There is no indication of any contamination in the oil.

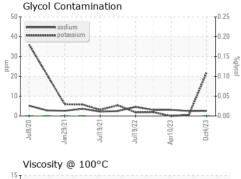
Fluid Condition

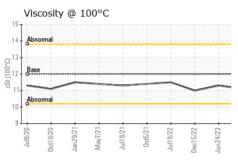
The condition of the oil is acceptable for the time in service.

LIK)		Jul2020	Jan2021 Jul2021	Jul2022 Apr2023	Oct2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0848069	WC0828166	WC0794933
Sample Date		Client Info		04 Oct 2023	24 Jun 2023	10 Apr 2023
Machine Age	kms	Client Info		394279	579242	0
Oil Age	kms	Client Info		34355	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	٧	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	27	19	30
Chromium	ppm	ASTM D5185(m)	>20	2	2	2
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	1
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)	>3	<1	0	0
Aluminum	ppm	ASTM D5185(m)	>20	2	2	2
Lead	ppm	ASTM D5185(m)	>40	<1	<1	<1
Copper	ppm	ASTM D5185(m)	>330	3	3	13
Tin	ppm	ASTM D5185(m)	>15	0	0	<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	4	2	1
Barium	ppm	ASTM D5185(m)	0	<1	0	0
Molybdenum	ppm	ASTM D5185(m)	50	67	62	68
Manganese	ppm	ASTM D5185(m)	0	<1	<1	1
Magnesium	ppm	ASTM D5185(m)	950	1023	1006	1086
Calcium	ppm	ASTM D5185(m)	1050	1138	1105	1237
Phosphorus	ppm	ASTM D5185(m)	995	1032	1094	1125
Zinc	ppm	ASTM D5185(m)	1180	1261	1237	1313
Sulfur	ppm	ASTM D5185(m)	2600	2534	2555	2511
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	7	6	7
Sodium	ppm	ASTM D5185(m)		3	2	3
Potassium	ppm	ASTM D5185(m)	>20	22	<1	0
Glycol	%	ASTM D7922*		0.0	NEG	NEG
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.5	0.4	
Nitration	Abs/cm	ASTM D7624*	>20	9.2	7.8	
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.3	19.3	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	16.0	15.0	



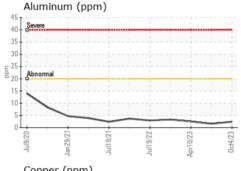
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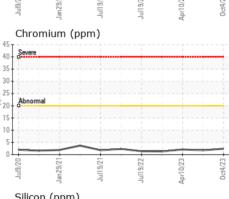


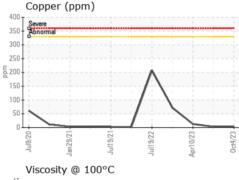


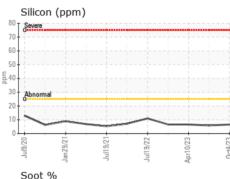
VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	
Free Water	scalar	Visual*		NEG	NEG	
FLUID PROPER	ΓIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	11.1	11.3	
GRAPHS						
Iron (ppm)			90	Lead (ppm)		
200 Severe			80 70 60	Severe		
			E 50	Abnormal		

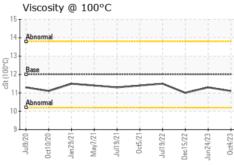
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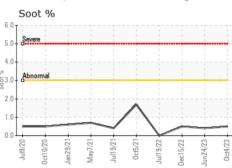














CALA ISO 17025:2017 Accredited

Laboratory Sample No. Lab Number Unique Number

: WC0848069 : 02588144 : 5657210

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 MANITOULIN TRANSPORT (GARAGE) Received Diagnosed

: 11 Oct 2023 : 11 Oct 2023 Diagnostician : Wes Davis Test Package : MOB 1 (Additional Tests: Glycol)

1335 SHAWSON DRIVE MISSISSAUGA, ON CA L4W 1C4

Contact: Travis Spence tspence@manitoulintransport.com T:

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.

F: (905)564-6361