

OIL ANALYSIS REPORT

Sample Rating Trend



NAVISTAR 51952 Component

Diesel Engine

Fluid PETRO CANADA DURON SHP 10W30 (--- G

Recommendation

Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

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.

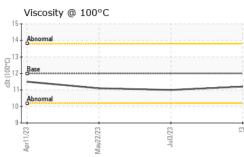
Fluid Condition

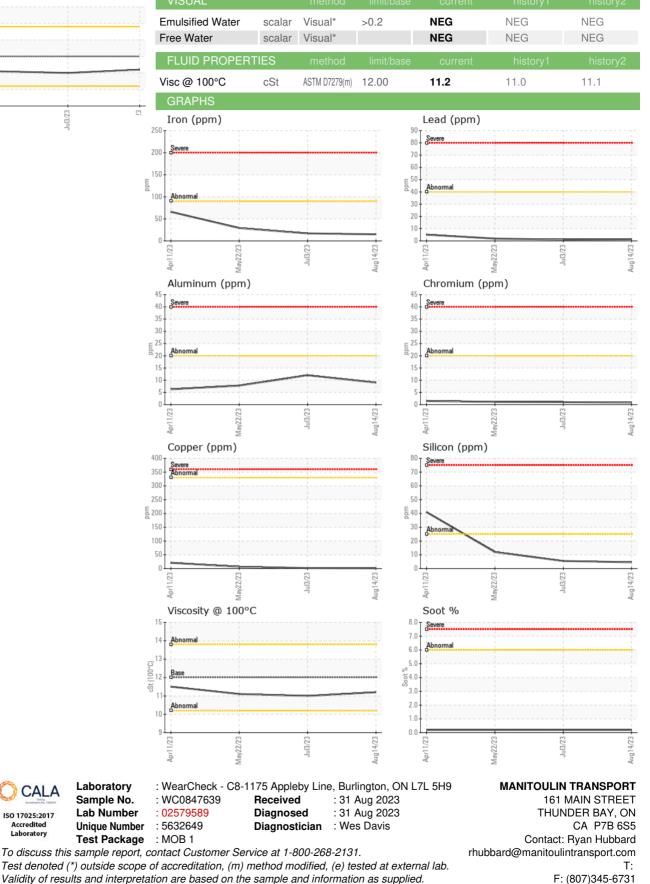
The condition of the oil is acceptable for the time in service.

AL)		Apr202	3 May2023	Jul2023 Av	ug2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		WC0847639	WC0805672	WC0805676	
Sample Date		Client Info		14 Aug 2023	03 Jul 2023	22 May 2023	
Machine Age	kms	Client Info		108036	83614	58167	
Oil Age	kms	Client Info		24423	25447	25809	
Oil Changed		Client Info		Changed	Changed	Changed	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINATIO	Ν	method	limit/base	current	history1	history2	
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0	
Glycol		WC Method		NEG	NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2	
ron	ppm	ASTM D5185(m)	>90	15	17	29	
Chromium	ppm	ASTM D5185(m)	>20	<1	1	1	
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	<1	
Fitanium	ppm	ASTM D5185(m)		0	0	0	
Silver	ppm	ASTM D5185(m)	>2	<1	<1	<1	
Aluminum	ppm	ASTM D5185(m)	>20	9	12	8	
_ead	ppm	ASTM D5185(m)	>40	1	1	2	
Copper	ppm	ASTM D5185(m)	>330	1	2	6	
Fin	ppm	ASTM D5185(m)	>15	<1	<1	2	
Antimony	ppm	ASTM D5185(m)		0	0	0	
/anadium	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	2	4	7	
Barium	ppm	ASTM D5185(m)	0	0	0	<1	
Molybdenum	ppm	ASTM D5185(m)	50	58	52	59	
Manganese	ppm	ASTM D5185(m)	0	<1	<1	1	
Magnesium	ppm	ASTM D5185(m)	950	961	823	875	
Calcium	ppm	ASTM D5185(m)	1050	1070	946	1114	
Phosphorus	ppm	ASTM D5185(m)	995	1045	977	1019	
Zinc	ppm	ASTM D5185(m)	1180	1201	1124	1177	
Sulfur	ppm	ASTM D5185(m)	2600	2440	2226	2261	
₋ithium	ppm	ASTM D5185(m)		<1	<1	<1	
CONTAMINANTS	S	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>25	5	6	12	
Sodium	ppm	ASTM D5185(m)		2	2	3	
Potassium	ppm	ASTM D5185(m)	>20	23	31	21	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*	>6	0.2	0.2	0.2	
Nitration	Abs/cm	ASTM D7624*	>20	7.6	7.6	8.6	
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.1	22.7	21.3	
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	ASTM D7414*	>25	15.5	17.7	17.2	
42:24) Rev: 1				Contact/Location: Ryan Hubbard - MANTHU			



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