

OIL ANALYSIS

Area 52000 series Navistar 52754M

Diesel Engine Flui PETRO CANADA DURON SHP 10W30 (40 LTR)

DIAGNOSIS

Recommendation

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

There is a moderate concentration of dirt present in the oil.

Fluid Condition

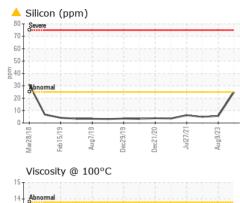
The oil is no longer serviceable due to the presence of contaminants.

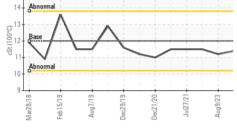
SIS REPO	ORT	Samp	le Rating Tre	end		DIRT
TR)		Mar2018 Fe	b2019 Aug2019 Dec	2019 Dec2020 Jul2021	Aug2023	
SAMPLE INFOR		method	limit/base	current	history1	history2
Sample Number		Client Info		WC0915053	WC0837237	WC0771284
Sample Date		Client Info		26 Mar 2024	09 Aug 2023	27 Jan 2023
Machine Age	mls	Client Info		609351	576273	542314
Dil Age	mls	Client Info		33078	33959	34941
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL
CONTAMINATIO	ON	method	limit/base	current	history1	history2
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
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185(m)	>90	30	37	28
Chromium	ppm	ASTM D5185(m)	>20	<1	2	1
Nickel	ppm	ASTM D5185(m)	>2	0	0	0
Fitanium	ppm	ASTM D5185(m)	>2	0	0	<1
Silver	ppm	ASTM D5185(m)		0	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	4	5	4
Lead	ppm	ASTM D5185(m)	>40	0	4	5
Copper	ppm	ASTM D5185(m)	>330	<1	<1	<1
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	2	2	4
Barium	ppm	ASTM D5185(m)	0	0	0	0
Nolybdenum	ppm	ASTM D5185(m)	50	59	62	61
Manganese	ppm	ASTM D5185(m)	0	0	<1	<1
Magnesium	ppm	ASTM D5185(m)	950	965	1013	959
Calcium	ppm	ASTM D5185(m)	1050	1024	1105	1273
Phosphorus	ppm	ASTM D5185(m)	995	988	1070	1096
Zinc	ppm	ASTM D5185(m)	1180	1170	1243	1250
Sulfur	ppm	ASTM D5185(m)	2600	2443	2399	2543
	ppm	ASTM D5185(m)		<1	<1	<1
Lithium						
Lithium CONTAMINANT	S	method	limit/base	current	history1	history2
CONTAMINANT						
	S ppm ppm	method ASTM D5185(m) ASTM D5185(m)	limit/base >25	current 25 2	history1 6 2	history2 5 2

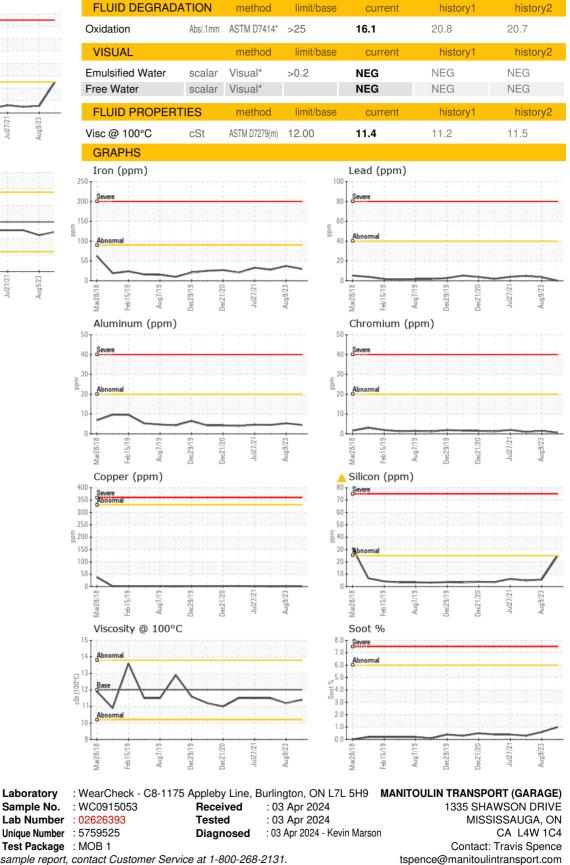
Potassium	ppm	ASTM D5185(m)	>20	3	3	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	1	0.6	0.3
Nitration	Abs/cm	ASTM D7624*	>20	9.8	11.9	11.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.8	24.9	24.0



OIL ANALYSIS REPORT

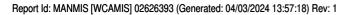






To discuss this sample report, contact Customer Service at 1-800-268-2131. Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

Т: F: (905)564-6361



CALA

ISO 17025:2017 Accredited Laboratory

Laboratory

Sample No.

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