

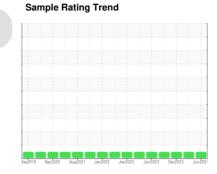
OIL ANALYSIS REPORT



(MX3195) **FREIGHTLINER 11285**

Diesel Engine

PETRO CANADA DURON SHP 15W40 (20 GAL)





DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

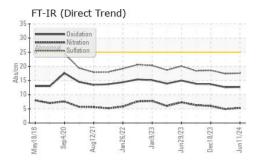
Fluid Condition

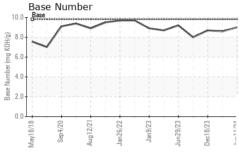
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

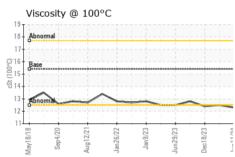
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0109645	GFL0109656	GFL0087498
Sample Date		Client Info		11 Jun 2024	19 Apr 2024	18 Dec 2023
Machine Age	hrs	Client Info		5025	4992	4921
Oil Age	hrs	Client Info		296	263	192
Oil Changed		Client Info		Changed	Not Changd	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	0.3
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	4	4	13
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>2	<1	0	<1
Titanium	ppm	ASTM D5185m	>2	0	0	<1
Silver	ppm	ASTM D5185m	>2	<1	<1	0
Aluminum	ppm	ASTM D5185m	>25	1	<1	1
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	<1	2	<1
Tin	ppm	ASTM D5185m	>15	0	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	19	21	9
Barium	ppm	ASTM D5185m	0	0	2	0
Molybdenum	ppm	ASTM D5185m	60	57	61	64
Manganese	ppm	ASTM D5185m	0	<1	1	0
Magnesium	ppm	ASTM D5185m	1010	858	891	927
Calcium	ppm	ASTM D5185m	1070	1066	1135	1181
Phosphorus	ppm	ASTM D5185m	1150	953	1046	1139
Zinc	ppm	ASTM D5185m	1270	1130	1198	1275
Sulfur	ppm	ASTM D5185m	2060	3378	3598	3231
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	2	2	3
Sodium	ppm	ASTM D5185m		2	2	<1
Potassium	ppm	ASTM D5185m	>20	2	0	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0.2	0.5
Nitration	Abs/cm	*ASTM D7624	>20	5.3	4.9	6.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.6	17.4	18.6
FLUID DEGRA	NOITAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.7	12.6	13.7
Base Number (BN)	mg KOH/g	ASTM D2896		9.0	8.6	8.7

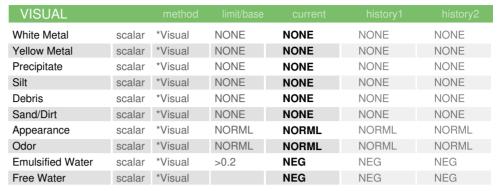


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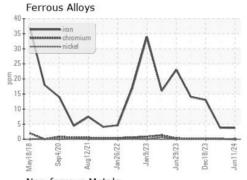


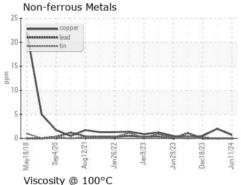


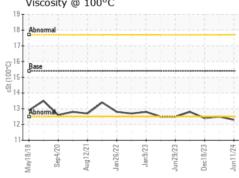


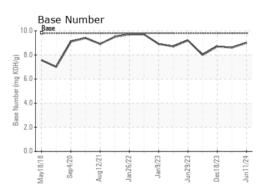
FLUID PROPI	ERHES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	12.3	12.5	12.4

GRAPHS













Certificate 12367

Sample No. Unique Number : 11084140

Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0109645 Lab Number : 06211276

Received : 17 Jun 2024 **Tested** : 18 Jun 2024 Diagnosed

: 18 Jun 2024 - Wes Davis

GFL Environmental - 331 - Columbus

180 Ada Moore Rd Columbus, NC US 28722

F: (252)617-2494

Contact: Matt Segars matt.segars@gflenv.com T: (800)207-6618

To discuss this sample report, contact Customer Service at 1-800-237-1369. st - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Report Id: GFL331 [WUSCAR] 06211276 (Generated: 06/22/2024 19:01:21) Rev: 1

Submitted By: Matt Segars