

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

FREIGHTLINER 181

Component

Diesel Engine

PETRO CANADA DURON SHP 10W30 (--- GAL)

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

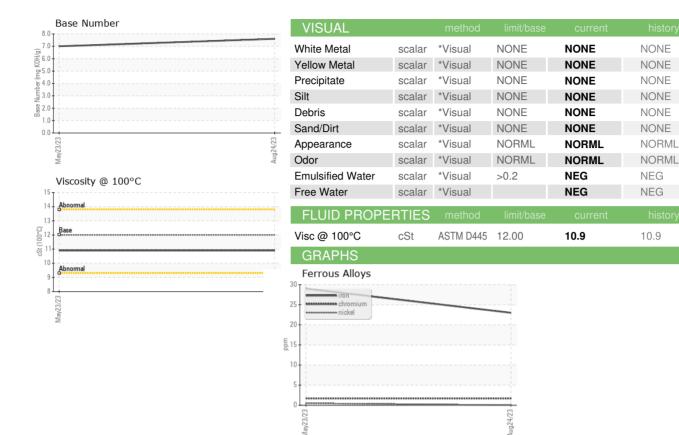
Fluid Condition

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

GAL)			May2023	Aug 2023		
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0097555	PCA0097571	
Sample Date		Client Info		24 Aug 2023	23 May 2023	
Machine Age	mls	Client Info		120000	68000	
Oil Age	mls	Client Info		25000	8000	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	
Glycol		WC Method		NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	23	29	
Chromium	ppm	ASTM D5185m	>6	2	2	
Nickel	ppm	ASTM D5185m	>3	0	<1	
Titanium	ppm	ASTM D5185m	>2	<1	<1	
Silver	ppm	ASTM D5185m	>2	0	0	
Aluminum	ppm	ASTM D5185m	>50	6	10	
Lead	ppm	ASTM D5185m	>10	<1	0	
Copper	ppm	ASTM D5185m	>50	33	56	
Tin	ppm	ASTM D5185m	>6	<1	2	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	<1	4	
Barium	ppm	ASTM D5185m	0	0	2	
Molybdenum	ppm	ASTM D5185m	50	69	69	
Manganese	ppm	ASTM D5185m	0	<1	<1	
Magnesium	ppm	ASTM D5185m	950	1035	957	
Calcium	ppm	ASTM D5185m	1050	1127	1181	
Phosphorus	ppm	ASTM D5185m	995	1076	1037	
Zinc	ppm	ASTM D5185m	1180	1336	1261	
Sulfur	ppm	ASTM D5185m	2600	2966	2506	
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	4	5	
Sodium	ppm	ASTM D5185m		1	0	
Potassium	ppm	ASTM D5185m	>20	12	27	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.7	0.7	
Nitration	Abs/cm	*ASTM D7624	>20	8.9	9.0	
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.1	21.6	
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.5	19.3	
Base Number (BN)	mg KOH/g	ASTM D2896		7.6	7.0	

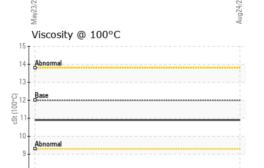


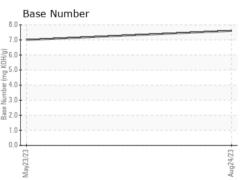
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Non-ferrous Metals

E 30







Certificate L2367

Laboratory Sample No. Lab Number Unique Number Test Package : FLEET

: PCA0097555 : 05971998

: 10683948

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 06 Oct 2023 Diagnosed Diagnostician

: 09 Oct 2023 : Wes Davis

US 60544 Contact: JOSHUA HUBBARD joshua@tvarepairllc.com T: (815)306-0330

TVA REPAIR LLC

PLAINFIELD, IL

13915 W ROUTE 30

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - 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)

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