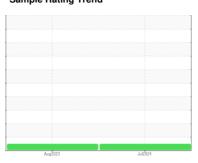


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id

FREIGHTLINER 186

Component

Diesel Engine

Fluid

PETRO CANADA DURON SHP 10W30 (12 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

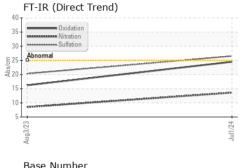
Fluid Condition

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

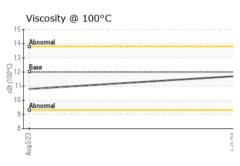
GAL)			Aug2023	Jul2024		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0117389	PCA0102650	
Sample Date		Client Info		01 Jul 2024	03 Aug 2023	
Machine Age	mls	Client Info		239621	139409	
Oil Age	mls	Client Info		50000	49567	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>80	67	20	
Chromium	ppm	ASTM D5185m	>5	4	1	
Nickel	ppm	ASTM D5185m	>2	1	0	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m	>3	0	0	
Aluminum	ppm	ASTM D5185m	>30	20	8	
Lead	ppm	ASTM D5185m	>30	2	0	
Copper	ppm	ASTM D5185m	>150	8	15	
Tin	ppm	ASTM D5185m	>5	<1	0	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		<1	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	0	3	
Barium	ppm	ASTM D5185m	0	<1	0	
Molybdenum	ppm	ASTM D5185m	50	60	58	
Manganese	ppm	ASTM D5185m	0	1	0	
Magnesium	ppm	ASTM D5185m	950	772	957	
Calcium	ppm	ASTM D5185m	1050	1134	1074	
Phosphorus	ppm	ASTM D5185m	995	912	975	
Zinc	ppm	ASTM D5185m	1180	968	1276	
Sulfur	ppm	ASTM D5185m	2600	2345	3128	
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	7	3	
Sodium	ppm	ASTM D5185m		4	0	
Potassium	ppm	ASTM D5185m	>20	27	16	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1.7	0.7	
Nitration	Abs/cm	*ASTM D7624	>20	13.6	8.5	
Sulfation	Abs/.1mm	*ASTM D7415	>30	26.5	20.3	
FLUID DEGRA	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	24.5	16.2	
Base Number (BN)	mg KOH/g	ASTM D2896		4.5	7.6	



OIL ANALYSIS REPORT



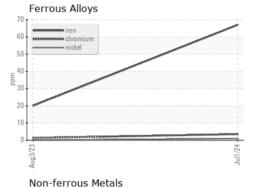
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1.0							
0.0							
							7.0
23							- 2
Aug3/23							3
< 4							

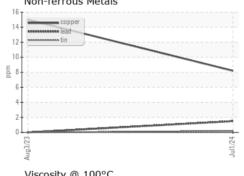


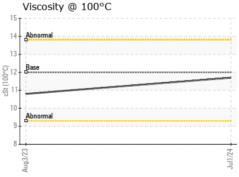
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
Free Water	scalar	*Visual		NEG	NEG	

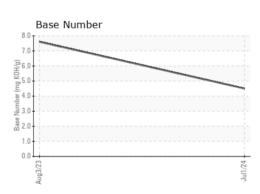
FLUID PROP	ERHES	method			history1	history2
Visc @ 100°C	cSt	ASTM D445	12.00	11.7	10.8	

GRAPHS













Certificate 12367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0117389 Lab Number : 06239980

Unique Number : 11128814 Test Package : FLEET

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

Received : 18 Jul 2024 Tested Diagnosed

: 18 Jul 2024 : 18 Jul 2024 - Wes Davis

A Truck Repair 9349 China Grove Church Road Pineville, NC

US 28134 Contact: Vlad Melnichuk shop@migway.com T: (980)255-3200

* - 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)