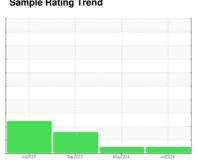


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id

FREIGHTLINER 33

Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (13 LTR)

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

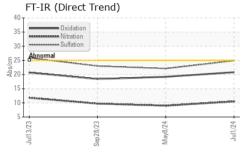
Fluid Condition

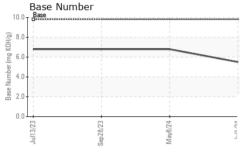
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

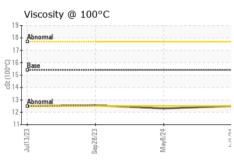
LTR)		Jul202	3 Sep 2023	May2024 Ju	12024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0117388	PCA0104932	PCA0105011
Sample Date		Client Info		01 Jul 2024	08 May 2024	28 Sep 2023
Machine Age	mls	Client Info		675238	0	552720
Oil Age	mls	Client Info		25000	0	26248
Oil Changed		Client Info		Changed	N/A	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
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	>80	27	19	38
Chromium	ppm	ASTM D5185m	>5	1	<1	2
Nickel	ppm	ASTM D5185m	>2	<1	0	<1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>30	2	2	2
Lead	ppm	ASTM D5185m	>30	22	6	6
Copper	ppm	ASTM D5185m	>150	<1	<1	3
Tin	ppm	ASTM D5185m	>5	2	2	4
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	9	6	9
Barium	ppm	ASTM D5185m	0	0	<1	0
Molybdenum	ppm	ASTM D5185m	60	49	60	45
Manganese	ppm	ASTM D5185m		<1	<1	1
Magnesium	ppm	ASTM D5185m	1010	730	911	619
Calcium	ppm	ASTM D5185m	1070	1180	1125	1411
Phosphorus	ppm	ASTM D5185m	1150	881	1026	872
Zinc	ppm	ASTM D5185m	1270	1053	1212	1132
Sulfur	ppm	ASTM D5185m	2060	2874	3328	3149
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	7	8	<u>4</u> 1
Sodium	ppm	ASTM D5185m		4	<1	5
Potassium	ppm	ASTM D5185m	>20	4	<1	6
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	2	1	1.8
Nitration	Abs/cm	*ASTM D7624	>20	10.5	9.0	9.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.9	22.1	23.0
FLUID DEGRAD	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.8	19.2	18.4
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	5.5	6.8	6.8

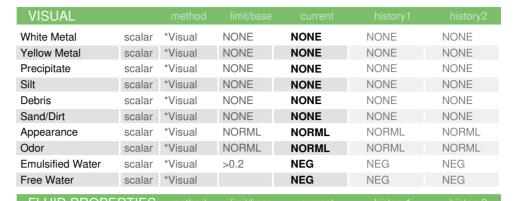


OIL ANALYSIS REPORT



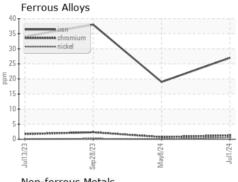


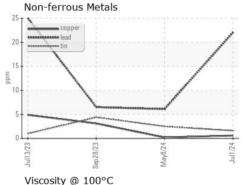


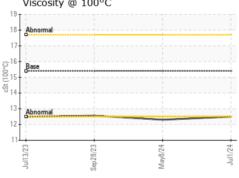


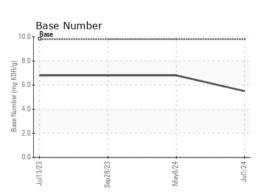
FLUID FROF		memod			HISTOLAL	HISTOLYZ
Visc @ 100°C	cSt	ASTM D445	15.4	12.5	12.3	12.56

GRAPHS













Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0117388 Lab Number : 06239974 Unique Number : 11128808

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

Test Package : FLEET Certificate 12367 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)