

OIL ANALYSIS REPORT

Sample Rating Trend



FREIGHTLINER 8426 Component

Diesel Engine

Fluid PETRO CANADA DURON SHP 10W30 (44 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.

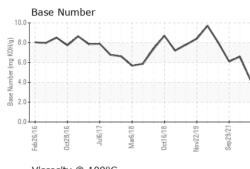
Fluid Condition

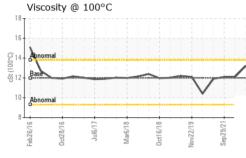
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

AL)		3b2016 Oct	2016 Jul2017 Mar	2018 Oct2018 Nov2019 S	ep2021	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0073372	PCA0051763	PCA0051899
Sample Date		Client Info		21 Jul 2023	09 Jun 2022	29 Sep 2021
Machine Age	mls	Client Info		726136	675483	641167
Oil Age	mls	Client Info		28654	34316	50991
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	.S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	39	26	31
Chromium	ppm	ASTM D5185m	>6	2	2	2
Nickel	ppm	ASTM D5185m	>3	<1	<1	<1
Titanium	ppm	ASTM D5185m	>2	0	0	<1
Silver	ppm	ASTM D5185m	>2	0	1	1
Aluminum	ppm	ASTM D5185m	>50	12	13	15
_ead	ppm	ASTM D5185m	>10	0	<1	<1
Copper	ppm	ASTM D5185m	>50	5	6	13
Tin	ppm	ASTM D5185m	>6	<1	<1	<1
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	0	5	3
Barium	ppm	ASTM D5185m	0	1	2	0
Molybdenum	ppm	ASTM D5185m	50	64	68	64
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	950	947	1001	887
Calcium	ppm	ASTM D5185m	1050	1141	1161	1095
Phosphorus	ppm	ASTM D5185m	995	1015	1089	974
Zinc	ppm	ASTM D5185m	1180	1249	1390	1184
Sulfur	ppm	ASTM D5185m	2600	2382	2991	2075
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	4	5	4
Sodium	ppm	ASTM D5185m		<1	2	0
Potassium	ppm	ASTM D5185m	>20	2	2	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1.1	0.7	1
Nitration	Abs/cm	*ASTM D7624	>20	14.4	10.2	11.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	26.6	22.1	23.8
FLUID DEGRA	DAT <u>IO</u> N	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	28.8	19.3	21.9
Base Number (BN)	mg KOH/g	ASTM D2896	-	4.2	6.6	6.1

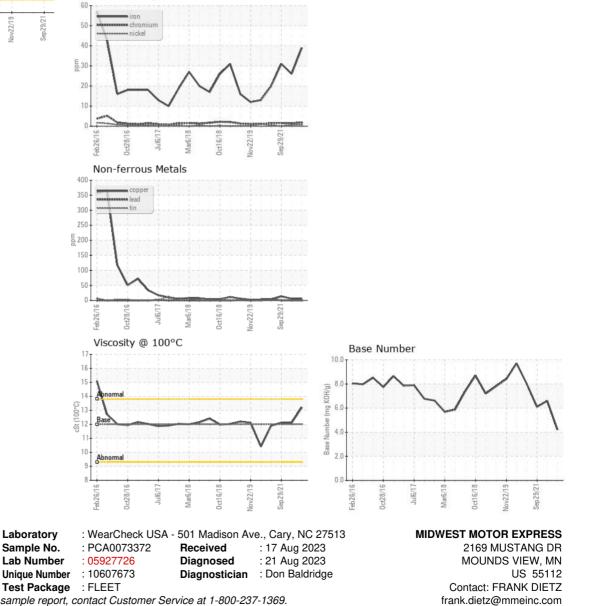


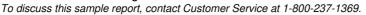
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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	12.00	13.2	12.1	12.1
GRAPHS						
Ferrous Alloys						





* - 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)

Certificate L2367

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