

OIL ANALYSIS REPORT

Base Number (BN) mg KOH/g ASTM D2896

Sample Rating Trend



FREIGHTLINER 473915 Component

Diesel Engine

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

Fluid

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

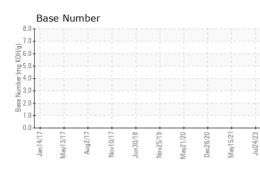
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

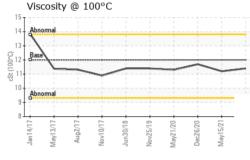
AL)			2017 Aug2017 Nov2017 Jun	2018 Nov2019 May2020 Dec2020 May	021 Jul2023		
SAMPLE INFOF	RMATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		PCA0102922	PCA0051544	PCA0039545	
Sample Date		Client Info		24 Jul 2023	15 May 2021	26 Dec 2020	
Machine Age	mls	Client Info		215409	140219	127864	
Oil Age	mls	Client Info		215409	12355	30000	
Oil Changed		Client Info		Changed	Changed	Changed	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINAT	FION	method	limit/base		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	>90	37	55	42	
Chromium	ppm	ASTM D5185m	>20	<1	1	<1	
Nickel	ppm	ASTM D5185m	>2	0	<1	0	
Titanium	ppm	ASTM D5185m	>2	3	<1	2	
Silver	ppm	ASTM D5185m	>2	0	0	<1	
Aluminum	ppm	ASTM D5185m	>20	3	7	5	
Lead	ppm	ASTM D5185m	>40	0	<1	0	
Copper	ppm	ASTM D5185m	>330	<1	1	1	
Tin	ppm	ASTM D5185m	>15	0	<1	<1	
Antimony	ppm	ASTM D5185m			<1	0	
Vanadium	ppm	ASTM D5185m		0	<1	0	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	2	5	13	7	
Barium	ppm	ASTM D5185m	0	1	0	0	
Molybdenum	ppm	ASTM D5185m	50	59	54	58	
Manganese	ppm	ASTM D5185m	0	<1	<1	<1	
Magnesium	ppm	ASTM D5185m	950	895	784	965	
Calcium	ppm	ASTM D5185m	1050	1277	1377	1201	
Phosphorus	ppm	ASTM D5185m	995	1066	1003	1080	
Zinc	ppm	ASTM D5185m	1180	1283	1276	1347	
Sulfur	ppm	ASTM D5185m	2600	2998	2464	2804	
CONTAMINAN	ITS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	4	4	3	
Sodium	ppm	ASTM D5185m	00	<1	3	2	
Potassium	ppm	ASTM D5185m		2	8	7	
INFRA-RED		method	limit/base		history1	history2	
Soot %	%	*ASTM D7844	>6	0.8	1.4	1.2	
Nitration	Abs/cm	*ASTM D7624	>20	10.3	12.2	10.9	
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.3	23	21.6	
FLUID DEGRA	DATION	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.6	17.8	17.1	
-	1/01:1	LOTH DOGO					

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* - 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

Laboratory

Sample No.

Lab Number

F: (215)552-9892