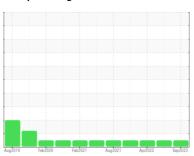


OIL ANALYSIS REPORT

Sample Rating Trend







FREIGHTLINER 8504

Component

Diesel Engine

PETRO CANADA DURON SHP 10W30 (44 QTS)

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

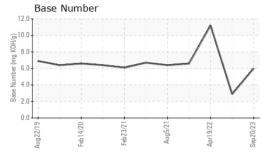
Fluid Condition

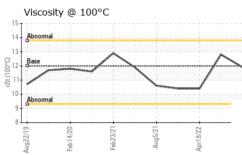
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

QTS)		Aug2019	Feb2020 Feb2021	Aug2021 Apr2022	Sep 2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0088614	PCA0051785	PCA0051796
Sample Date		Client Info		20 Sep 2023	09 Feb 2023	19 Apr 2022
Machine Age	mls	Client Info		573683	541177	448092
Oil Age	mls	Client Info		573683	0	32432
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATI	ON	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 METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>80	38	51	23
Chromium	ppm	ASTM D5185m	>5	2	3	<1
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>30	10	20	8
Lead	ppm	ASTM D5185m	>30	<1	0	<1
Copper	ppm	ASTM D5185m	>150	8	7	2
Tin	ppm	ASTM D5185m	>5	<1	<1	<1
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	<1	2	46
Barium	ppm	ASTM D5185m	0	9	0	0
Molybdenum	ppm	ASTM D5185m	50	68	66	40
Manganese	ppm		0	<1	1	<1
Magnesium	ppm	ASTM D5185m	950	981	1067	533
Calcium	ppm		1050	1156	1248	1724
Phosphorus	ppm	ASTM D5185m	995	1066	1108	780
Zinc	ppm	ASTM D5185m		1280	1404	905
Sulfur	ppm	ASTM D5185m	2600	2473	3146	2269
CONTAMINAN'	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	5	4	6
Sodium	ppm	ASTM D5185m		<1	4	10
Potassium	ppm	ASTM D5185m	>20	4	1	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	8.0	1.3	0.6
Nitration	Abs/cm	*ASTM D7624	>20	10.9	15.1	7.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.7	27.8	23.5
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.3	30.5	21.5
Base Number (BN)	mg KOH/g	ASTM D2896		6.0	2.9	11.2



OIL ANALYSIS REPORT

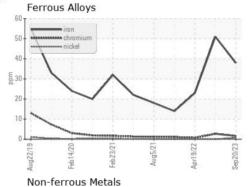


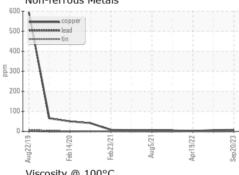


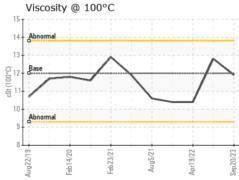
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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

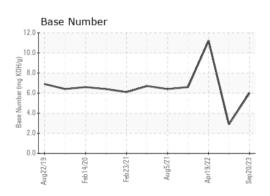
FLUID PROPI	EKIIES	metnoa	ilmit/base	current	nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	12.00	11.9	12.8	10.4

GRAPHS













Laboratory Sample No. Lab Number **Unique Number**

: PCA0088614 : 06013680 : 10752824

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 21 Nov 2023 Diagnosed : 21 Nov 2023 Diagnostician : Wes Davis

Test Package : FLEET Certificate L2367 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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