

OIL ANALYSIS REPORT





Component **Diesel Engine** Fluid

FREIGHTLINER 470356

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

DIAGNOSIS Recommendation

Resample at the next service interval to monitor.

Machine Ic

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 acceptable for the time in service.

SAMIFLE INFURI		methoa	iiiiii/base	current	Thistory I	TIIStOryz
Sample Number		Client Info		PCA0098981	PCA0093145	PCA0089905
Sample Date		Client Info		11 Oct 2023	02 Jun 2023	07 Feb 2023
Machine Age	mls	Client Info		219804	208525	191099
Oil Age	mls	Client Info		31008	0	0
Oil Changed		Client Info		Changed	Not Changd	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		ASTM D5185m	>130	96	12	49
Chromium	ppm ppm	ASTM D5185m	>130	3	<1	49
Nickel		ASTM D5185m	>4	ہ <1	2	0
	ppm			<1	<1	0
Titanium Silver	ppm	ASTM D5185m		<1	<1	0
Aluminum	ppm	ASTM D5185m ASTM D5185m	>2 >20	12	<1	9
Lead	ppm	ASTM D5185m	>20	12 0	<1	9
	ppm				2	
Copper Tin	ppm	ASTM D5185m ASTM D5185m	>125	2 0	<1	1
Vanadium	ppm	ASTM D5185m ASTM D5185m	>4			0
	ppm			0	<1 0	0
Cadmium	ppm	ASTM D5185m		U	0	-
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	5	2	5
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	50	71	64	66
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	950	876	1079	907
Calcium	ppm	ASTM D5185m	1050	1072	1220	1197
Phosphorus	ppm	ASTM D5185m	995	999	1069	1040
Zinc	ppm	ASTM D5185m	1180	1183	1395	1253
Sulfur	ppm	ASTM D5185m	2600	2459	3852	2650
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	8	3	5
Sodium	ppm	ASTM D5185m		<1	3	3
Potassium	ppm	ASTM D5185m	>20	6	<1	5
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	2.2	1.2	1.3
Nitration	Abs/cm	*ASTM D7624	>20	15.0	10.4	12.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	28.8	22.8	24.0
FLUID DEGRA		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	26.3	19.3	20.6
Base Number (BN)		ASTM D7414 ASTM D2896	>20	26.3 5.2		6.2
Dase Number (DN)	mg KOH/g	ASTINI DZ090		5.2	6.8	0.2



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