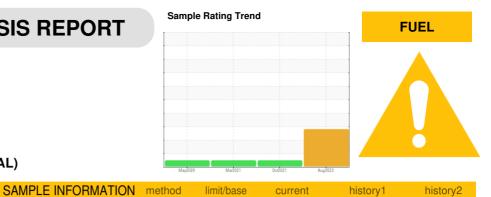


OIL ANALYSIS REPORT



PETERBILT TRUCK 19 Component

Diesel Engine Fluid

PETRO CANADA DURON SHP 15W40 (--- GAL)

DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Light fuel dilution occurring.

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The condition of the oil is suitable for further service.

SAMIFLE INFUN		method	IIIIIVDase	current	TIISTOLA	Thistory2
Sample Number		Client Info		PCA0053913	PCA0053880	PCA0030449
Sample Date		Client Info		29 Aug 2023	21 Oct 2021	19 Mar 2021
Machine Age	mls	Client Info		250708	499481	468047
Oil Age	mls	Client Info		20000	20000	20000
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL
-		and the second	11		In the second second	history O
CONTAMINAT	ION	method	limit/base	current	history1	history2
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>110	32	18	23
Chromium	ppm	ASTM D5185m	>4	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m		79	<1	<1
Silver	ppm	ASTM D5185m	>2	0	<1	<1
Aluminum	ppm	ASTM D5185m	>25	12	6	5
Lead	ppm	ASTM D5185m	>45	<1	<1	<1
Copper	ppm	ASTM D5185m	>85	<1	2	2
Tin	ppm	ASTM D5185m	>4	0	<1	<1
Antimony	ppm	ASTM D5185m			0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
	I. I.		11 11 11	_		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	▲ 100	6	11
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m	60	1 6	57	53
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	<u> </u>	898	760
Calcium	ppm	ASTM D5185m	1070	<u> </u>	1258	1276
Phosphorus	ppm	ASTM D5185m	1150	946	1043	960
Zinc	ppm	ASTM D5185m		1141	1143	1108
Sulfur	ppm	ASTM D5185m	2060	3929	2614	2645
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	7	8	6
Sodium	ppm	ASTM D5185m		2	0	2
Potassium	ppm	ASTM D5185m	>20	8	1	3
Fuel	%	ASTM D3524	>5	<mark>/</mark> 3.9	<1.0	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0.4	0.5
Nitration	Abs/cm	*ASTM D7624		10.5	11	12
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.2	23.4	25.4
FLUID DEGRA		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.5	21.5	23.7
Base Number (BN)	mg KOH/g	ASTM D2896		8.37	8.83	6.06
	ing itoring	AUTHI D2030	0.0	0.37	0.00	0.00



OIL ANALYSIS REPORT

