

OIL ANALYSIS REPORT

(P1128499) Preferred Service-Tractor [Preferred Service-Tractor] 192A32019B

Diesel Engine

Fluid PETRO CANADA DURON UHP 5W30 (36 QTS)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

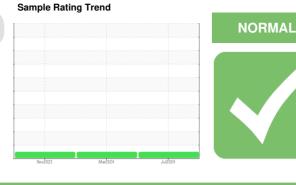
All component wear rates are normal.

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 acceptable for the time in service.



SAMPLE INFORM	NATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0130203	PCA0120235	PCA0112171
Sample Date		Client Info		15 Jul 2024	19 Mar 2024	22 Nov 2023
Machine Age	mls	Client Info		190853	178281	166925
Oil Age	mls	Client Info		12572	11356	35780
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATI	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>6.0	<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	>100	50	34	52
Chromium	ppm	ASTM D5185m	>20	1	<1	<1
Nickel	ppm	ASTM D5185m	>2	6	4	1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>25	6	4	4
Lead	ppm	ASTM D5185m	>40	2	1	1
Copper	ppm	ASTM D5185m	>330	22	21	15
Tin	ppm	ASTM D5185m	>15	2	2	2
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	13	31	5
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	64	67	65	55
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1160	1171	1090	1096
Calcium	ppm	ASTM D5185m	820	1051	887	922
Phosphorus	ppm	ASTM D5185m	1160	1117	957	1010
Zinc	ppm	ASTM D5185m	1260	1411	1249	1265
Sulfur	ppm	ASTM D5185m	3000	3483	3372	2913
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	16	8	10
Sodium	ppm	ASTM D5185m		5	3	5
Potassium	ppm	ASTM D5185m	>20	6	5	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.6	0.4	0.7
Nitration	Abs/cm	*ASTM D7624	>20	11.4	10.7	11.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.5	21.1	26.2
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	22.9	20.1	24.2

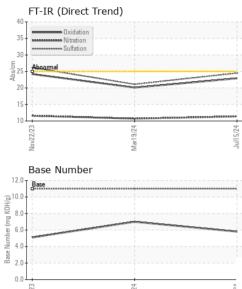
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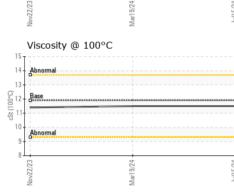
Base Number (BN) mg KOH/g ASTM D2896 11.0

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To discuss this sample repo * - 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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Certificate L2367

Submitted By: Tom Lindeman Page 2 of 2

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