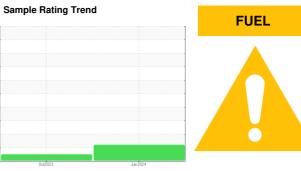


OIL ANALYSIS REPORT

Walgreens - Tractor [Walgreens - Tractor] 136A63364

Diesel Engine

PETRO CANADA DURON UHP E6 10W40 (11 GAL)



DIAGNOSIS

Recommendation

We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

Wear

Metal levels are typical for a new component breaking in.

Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

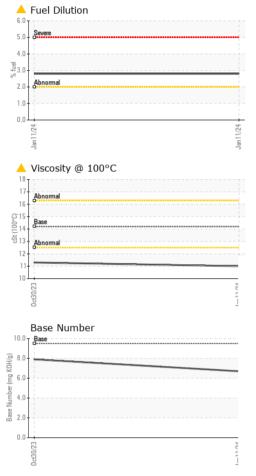
Fluid Condition

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 oil is no longer serviceable due to the presence of contaminants.

11 GAL)			Oct2023	Jan 2024		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0105447	PCA0105441	
Sample Date		Client Info		11 Jan 2024	30 Oct 2023	
Machine Age	mls	Client Info		71588	62600	
Oil Age	mls	Client Info		25000	17500	
Oil Changed		Client Info		Not Changd	Not Changd	
Sample Status				ABNORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	23	18	
Chromium	ppm	ASTM D5185m	>20	3	2	
Nickel	ppm	ASTM D5185m	>4	4	6	
Titanium	ppm	ASTM D5185m		0	<1	
Silver	ppm	ASTM D5185m	>3	<1	<1	
Aluminum	ppm	ASTM D5185m	>20	24	17	
Lead	ppm	ASTM D5185m	>40	5	3	
Copper	ppm	ASTM D5185m	>330	7	11	
Tin	ppm	ASTM D5185m	>15	3	2	
Vanadium	ppm	ASTM D5185m		<1	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	7	9	
Barium	ppm	ASTM D5185m	0	0	0	
Molybdenum	ppm	ASTM D5185m	0	57	59	
Manganese	ppm	ASTM D5185m	0	1	1	
Magnesium	ppm	ASTM D5185m	80	857	816	
Calcium	ppm	ASTM D5185m	2400	1059	1149	
Phosphorus	ppm	ASTM D5185m	750	987	965	
Zinc	ppm	ASTM D5185m	840	1240	1222	
Sulfur	ppm	ASTM D5185m	2130	2826	2959	
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	12	12	
Sodium	ppm	ASTM D5185m		3	0	
Potassium	ppm	ASTM D5185m	>20	59	44	
Fuel	%	ASTM D3524	>2.0	<u>^</u> 2.8	<1.0	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.2	
Nitration	Abs/cm	*ASTM D7624	>20	8.6	7.8	
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.3	20.0	
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Ahs/1mm	*ASTM D7414	>25	16.9	16.7	
Oxidation Base Number (BN)	Abs/.1mm mg KOH/g	*ASTM D7414 ASTM D2896	>25 9.5	16.9 6.7	16.7 7.9	



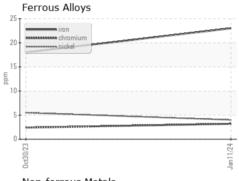
OIL ANALYSIS REPORT

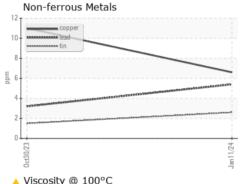


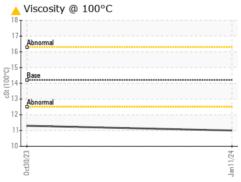
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
Free Water	scalar	*Visual		NEG	NEG	
FLUID PROPE	RTIES	method	limit/base	current	history1	history2

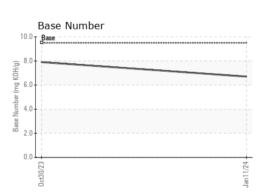
FLUID FROF	LHILS	method	IIIIII/Dase	Current	HISTOLAL	HISTOLYZ
Visc @ 100°C	cSt	ASTM D445	14.2	<u> </u>	11.3	

GRAPHS











Laboratory Sample No. Lab Number Unique Number : 10862604

: PCA0105447 : 06080513

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

Recieved : 05 Feb 2024 Diagnosed

: 07 Feb 2024 Diagnostician : Wes Davis **Test Package**: FLEET (Additional Tests: FuelDilution, PercentFuel)

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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