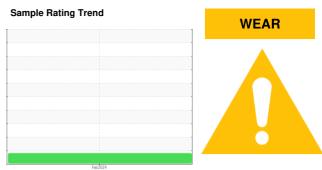


OIL ANALYSIS REPORT

(65234Z) Walgreens - Tractor [Walgreens - Tractor] 136A624210

Diesel Engine

PETRO CANADA DURON SHP 10W30 (11 0



DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other 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. No other contaminants were detected 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.

GAL)				Feb 2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0106581		
Sample Date		Client Info		14 Feb 2024		
Machine Age	mls	Client Info		61964		
Oil Age	mls	Client Info		50000		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
CONTAMINATI	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>80	73		
Chromium	ppm	ASTM D5185m	>5	5		
Nickel	ppm	ASTM D5185m	>2	1		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>30	109		
Lead	ppm	ASTM D5185m	>30	3		
Copper	ppm	ASTM D5185m	>150	<u>^</u> 205		
Tin	ppm	ASTM D5185m	>5	6		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	36		
Barium	ppm	ASTM D5185m	0	<1		
Molybdenum	ppm	ASTM D5185m	50	40		
Manganese	ppm	ASTM D5185m	0	5		
Magnesium	ppm	ASTM D5185m	950	599		
Calcium	ppm	ASTM D5185m	1050	1810		
Phosphorus	ppm	ASTM D5185m	995	751		
Zinc	ppm	ASTM D5185m	1180	915		
Sulfur	ppm	ASTM D5185m	2600	1735		
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	8		
Sodium	ppm	ASTM D5185m		8		
Potassium	ppm	ASTM D5185m	>20	251		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.7		
Nitration	Abs/cm	*ASTM D7624	>20	11.2		
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.5		
FLUID DEGRAD	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	27.0		
Base Number (BN)	mg KOH/g	ASTM D2896		5.7		



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