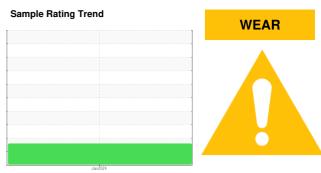


OIL ANALYSIS REPORT

(65346Z) Walgreens - Tractor [Walgreens - Tractor] 136A624001

Diesel Engine

PETRO CANADA DURON SHP 10W30 (11 GAL)



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

Cylinder, crank, or cam shaft wear is indicated. All other component wear rates are normal.

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)				Jan2024		
SAMPLE INFOR		method	limit/base	current	history1	history2
	IIVIA I IOIV		IIIIII/Dase		HISTORY	HISTOLYZ
Sample Number		Client Info		PCA0116419		
Sample Date		Client Info		16 Jan 2024		
Machine Age	mls	Client Info		94562		
Oil Age	mls	Client Info		94562		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
CONTAMINA	ΓΙΟΝ	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METAI	LS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>80	106		
Chromium	ppm	ASTM D5185m	>5	<u>^</u> 6		
Nickel	ppm	ASTM D5185m	>2	<1		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m	>3	<1		
Aluminum	ppm	ASTM D5185m	>30	85		
Lead	ppm	ASTM D5185m	>30	0		
Copper	ppm	ASTM D5185m	>150	140		
Tin	ppm	ASTM D5185m	>5	5		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	11		
Barium	ppm	ASTM D5185m	0	0		
Molybdenum	ppm	ASTM D5185m	50	45		
Manganese	ppm	ASTM D5185m	0	5		
Magnesium	ppm	ASTM D5185m	950	577		
Calcium	ppm	ASTM D5185m	1050	1521		
Phosphorus	ppm	ASTM D5185m	995	732		
Zinc	ppm	ASTM D5185m		863		
Sulfur	ppm	ASTM D5185m	2600	1670		
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	12		
Sodium	ppm	ASTM D5185m		5		
Potassium	ppm	ASTM D5185m	>20	212		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1.4		
Nitration	Abs/cm	*ASTM D7624	>20	13.5		
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.9		
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414		29.8		
Base Number (BN)		ASTM D2896	720	4.3		
Dasc Number (DIV)	my Norly	70 INI D2030		7.0		



OIL ANALYSIS REPORT



* - 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)

T: (864)226-2304

F: (864)226-2329