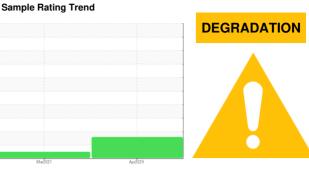


OIL ANALYSIS REPORT



Machine Id 22887

Component
Diesel Engine

PETRO CANADA DURON SHP 10W30 (--- G

DIAGNOSIS

Recommendation

The oil is near the end of it's useful service life. recommend schedule an oil change. Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

Fuel content negligible. There is no indication of any contamination in the oil.

Fluid Condition

The oil viscosity is lower than normal. The BN level is low. Confirm oil type.

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GAL)			Mar2021	Apr2024		
CAMPLE INFOR	MATION	اد د داد د دا	lineit/lenene		lai ata mud	history O
SAMPLE INFORI	VIATION		limit/base	current	history1	history2
Sample Number		Client Info		PCA06147167	PCA05197710	
Sample Date		Client Info		13 Apr 2024	06 Mar 2021	
Machine Age	mls	Client Info		0	0	
Oil Age	mls	Client Info		0	0	
Oil Changed		Client Info		N/A	N/A	
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	11	7	
Chromium	ppm	ASTM D5185m	>20	0	<1	
Nickel	ppm	ASTM D5185m	>4	0	<1	
Titanium	ppm	ASTM D5185m		0	<1	
Silver	ppm	ASTM D5185m	>3	0	0	
Aluminum	ppm	ASTM D5185m	>20	5	2	
Lead	ppm	ASTM D5185m	>40	0	<1	
Copper	ppm	ASTM D5185m	>330	4	3	
Tin	ppm	ASTM D5185m	>15	0	<1	
Antimony	ppm	ASTM D5185m	7.0		<1	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	16	12	
Barium	ppm	ASTM D5185m	0	0	0	
Molybdenum	ppm	ASTM D5185m	50	45	58	
Manganese	ppm	ASTM D5185m	0	6	1	
Magnesium	ppm	ASTM D5185m	950	740	864	
Calcium	ppm	ASTM D5185m	1050	811	1063	
Phosphorus	ppm	ASTM D5185m	995	645	883	
Zinc	ppm	ASTM D5185m	1180	769	1163	
Sulfur	ppm	ASTM D5185m		2782	2620	
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	14	10	
Sodium	ppm	ASTM D5185m	720	2	3	
Potassium	ppm	ASTM D5185m	>20	- <1	1	
Fuel	%	ASTM D3524	>5	1.8	<1.0	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0	0.1	
Nitration	Abs/cm	*ASTM D7624	>20	11.7	13.5	
Sulfation	Abs/.1mm	*ASTM D7415		25.6	24.2	
FLUID DEGRAD	ATION		limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>20	20.7	20.4	
Base Number (BN)	mg KOH/g	ASTM D2896		△ 3.6	6.8	



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

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

Lab Number : 06147167

Unique Number : 10977245

: PCA06147167

Received : 12 Apr 2024 **Tested** Diagnosed

: 17 Apr 2024 : 17 Apr 2024 - Jonathan Hester

Test Package: FLEET (Additional Tests: FuelDilution, PercentFuel)

To discuss this sample report, contact Customer Service at 1-800-237-1369. st - Denotes test methods that are outside of the ISO 17025 scope of accreditation. **PERDUE FARMS - DILLON**

2047 HWY 9 WEST DILLON, SC US 29536

F: (843)841-8070

Contact: KEVIN HOOKS kevin.hooks@perdue.com T: (843)841-8069

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)