

RECOMMENDATION

We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Please specify the component make and model with your next sample.

PROBLEMATIC TEST RESULTS								
Sample Status				SEVERE	NORMAL	NORMAL		
Fuel	%	ASTM D3524	>5	26.6	<1.0	<1.0		
Visc @ 100°C	cSt	ASTM D445	12.00	6 .4	11.2	11.2		

Customer Id: PERSALMD Sample No.: PCA0118424 Lab Number: 06143844 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data: Wes Davis +1 905-569-8600 x223 wesd@wearcheck.ca

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED ACTIONS						
Action	Status	Date	Done By	Description		
Resample			?	We recommend an early resample to monitor this condition.		
Information Required			?	Please specify the component make and model with your next sample.		
Check Fuel/injector System			?	We advise that you check the fuel injection system.		

HISTORICAL DIAGNOSIS



04 Sep 2023 Diag: Wes Davis

Resample at the next service interval to monitor. Please specify the component make and model with your next sample. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



view report



05 Jul 2023 Diag: Wes Davis

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



08 May 2023 Diag: Wes Davis

NORMAL

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT

Sample Rating Trend



Fluid PETRO CANADA DURON SHP 10W30 (--- QTS)

DIAGNOSIS

Recommendation

We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Please specify the component make and model with your next sample.

Wear

Area

1926696 Component Diesel Engine

All component wear rates are normal.

Contamination

There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

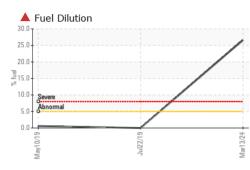
Fluid Condition

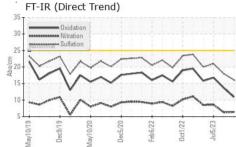
The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

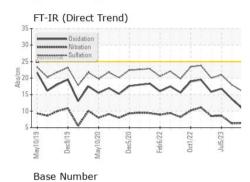
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0118424	PCA0101166	PCA0088749
Sample Date		Client Info		13 Mar 2024	04 Sep 2023	05 Jul 2023
Machine Age	mls	Client Info		467785	0	429703
Oil Age	mls	Client Info		20000	0	20000
Oil Changed		Client Info		Changed	N/A	Changed
Sample Status				SEVERE	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method	2 0.L	NEG	NEG	NEG
WEAR METAL	0		limit/booo			
		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	5	8	21
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	0	<1
Titanium	ppm	ASTM D5185m		51	<1	2
Silver	ppm	ASTM D5185m	>3	0	<1	0
Aluminum	ppm	ASTM D5185m	>20	0	2	2
Lead	ppm	ASTM D5185m	>40	0	<1	<1
Copper	ppm	ASTM D5185m	>330	<1	2	4
Tin	ppm	ASTM D5185m	>15	0	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	83	3	1
Barium	ppm	ASTM D5185m	0	0	0	2
Molybdenum	ppm	ASTM D5185m	50	10	60	59
Manganese	ppm	ASTM D5185m	0	<1	1	<1
Magnesium	ppm	ASTM D5185m	950	363	1027	865
Calcium	ppm	ASTM D5185m	1050	1127	1182	1115
Phosphorus	ppm	ASTM D5185m	995	683	1092	971
Zinc	ppm	ASTM D5185m	1180	799	1397	1220
Sulfur	ppm	ASTM D5185m	2600	2832	4115	3177
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	4	4
Sodium	ppm	ASTM D5185m		<1	4	8
Potassium	ppm	ASTM D5185m	>20	0	3	3
Fuel	%	ASTM D3524	>5	26.6	<1.0	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	0.2	0.4
Nitration	Abs/cm	*ASTM D7624		6.4	6.3	8.6
Sulfation	Abs/.1mm	*ASTM D7415		16.1	18.0	21.0
FLUID DEGRA	DAT <u>ION</u>	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	10.9	13.7	16.8
Base Number (BN)	mg KOH/g	ASTM D2896		7.6	8.5	7.4
()	0			-	-	

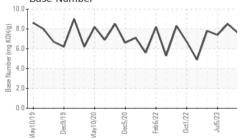


OIL ANALYSIS REPORT



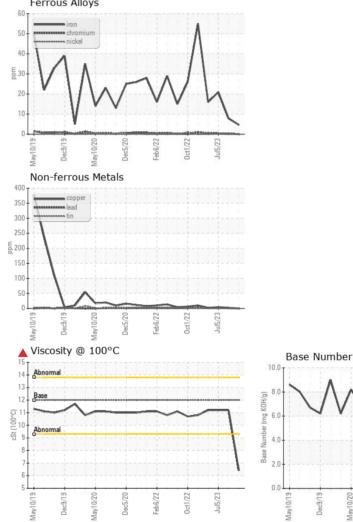






VISUAL		method	limit/base	ourropt	biotory1	history2
VISUAL		methoa	iimii/base	current	history1	nistory2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
	DTIEO		11 1.0			
FLUID PROPE	RHES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	12.00	6 .4	11.2	11.2
GRAPHS						

Ferrous Alloys



Dec5/20 . Dec9/19 Feb6/22 Mav10/19 May10/20 : WearCheck USA - 501 Madison Ave., Cary, NC 27513 **PERDUE FARMS - SALISBURY**

7036 ZION CHURCH ROAD SALISBURY, MD US 21802 Contact: RICHARD O`NEAL richard.oneal@perdue.com T: (410)543-3628 F: (410)341-2164



Unique Number : 10968652 Diagnosed : 15 Apr 2024 - Wes Davis Test Package : FLEET (Additional Tests: FuelDilution, PercentFuel) Certificate 12367 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)

Received

Tested

: 10 Apr 2024

: 15 Apr 2024

Report Id: PERSALMD [WUSCAR] 06143844 (Generated: 04/16/2024 12:44:59) Rev: 1

Laboratory

Sample No.

Lab Number : 06143844

: PCA0118424

Contact/Location: RICHARD O`NEAL - PERSALMD