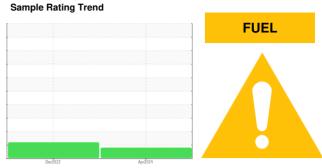


OIL ANALYSIS REPORT

BARTO 6330 [BARTO]

Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- GAL)



DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.

Wear

All component wear rates are normal.

Contamination

Light fuel dilution occurring. No other contaminants were detected in the oil.

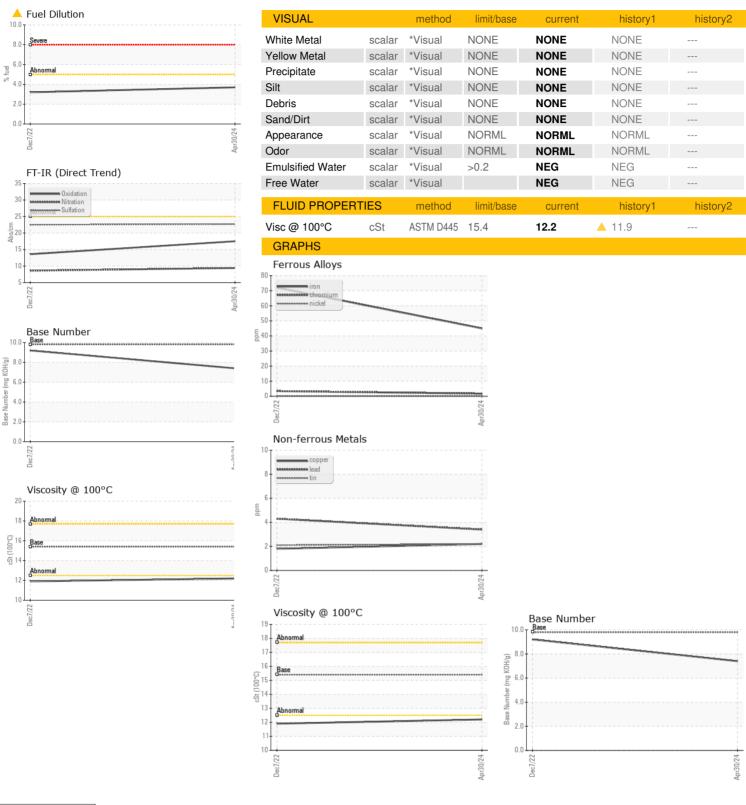
Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

iAL)		<u>-</u>	Dec2022	Apr2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		SBP0006517	SBP0002483	
Sample Date		Client Info		30 Apr 2024	07 Dec 2022	
Machine Age	mls	Client Info		685614	662911	
Oil Age	mls	Client Info		22707	26120	
Oil Changed		Client Info		Changed	Not Changd	
Sample Status				MARGINAL	ABNORMAL	
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>80	45	72	
Chromium	ppm	ASTM D5185m	>5	2	3	
Nickel	ppm	ASTM D5185m	>2	0	0	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m	>3	0	0	
Aluminum	ppm	ASTM D5185m	>30	2	2	
Lead	ppm	ASTM D5185m	>30	3	4	
Copper	ppm	ASTM D5185m	>150	2	2	
Tin	ppm	ASTM D5185m	>5	2	2	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	6	9	
Barium	ppm	ASTM D5185m	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	58	39	
Manganese	ppm	ASTM D5185m	0	1	<1	
Magnesium	ppm	ASTM D5185m	1010	930	820	
Calcium	ppm	ASTM D5185m	1070	1157	1681	
Phosphorus	ppm	ASTM D5185m	1150	1078	940	
Zinc	ppm	ASTM D5185m	1270	1229	1183	
Sulfur	ppm	ASTM D5185m	2060	3438	3653	
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	4	6	
Sodium	ppm	ASTM D5185m		8	0	
Potassium	ppm	ASTM D5185m	>20	3	0	
Fuel	%	ASTM D3524	>5	△ 3.7	▲ 3.2	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1.7	1.8	
Nitration	Abs/cm	*ASTM D7624	>20	9.4	8.6	
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.7	22.5	
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.5	13.6	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.4	9.2	
(211)	99					



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

: SBP0006517 Lab Number : 06212890 Unique Number : 11085754

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 17 Jun 2024 **Tested** Diagnosed

: 20 Jun 2024 : 20 Jun 2024 - Wes Davis

SCHMIDT TRANSPORTATION - BARTO

108 E Bay Road Plattsmouth, NE US 68048 Contact: Service Manager

Test Package : FLEET (Additional Tests: 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)

Submitted By: AARON MERITHEW

T:

F: