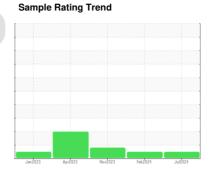


OIL ANALYSIS REPORT

BARTOMachine Id 6326 [BARTO]

Diesel Engine

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





Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

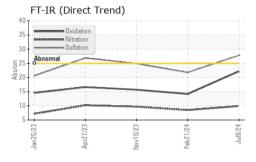
Fluid Condition

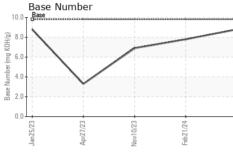
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

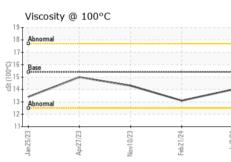
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		SBP0007762	SBP0006654	SBP0005924
Sample Date		Client Info		09 Jul 2024	21 Feb 2024	10 Nov 2023
Machine Age	mls	Client Info		621093	597078	573659
Oil Age	mls	Client Info		24015	23419	24098
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL
CONTAMINATIO	V	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>80	70	19	41
Chromium	ppm	ASTM D5185m		4	2	2
Nickel	ppm	ASTM D5185m	>2	<1	0	<1
Titanium		ASTM D5185m	76	0	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m		3	2	3
	ppm		>30	4	5	4
Lead	ppm	ASTM D5185m				3
Copper	ppm	ASTM D5185m		6	<1	<1
Tin	ppm	ASTM D5185m	>5	8	<1	
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	16	0	1
Barium	ppm	ASTM D5185m	0	2	0	0
Molybdenum	ppm	ASTM D5185m	60	40	62	58
Manganese	ppm	ASTM D5185m	0	2	<1	<1
Magnesium	ppm	ASTM D5185m	1010	511	1019	916
Calcium	ppm	ASTM D5185m	1070	1708	1196	1054
Phosphorus	ppm	ASTM D5185m	1150	795	1112	878
Zinc	ppm	ASTM D5185m	1270	923	1324	1167
Sulfur	ppm	ASTM D5185m	2060	2784	3059	3050
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	11	3	3
Sodium	ppm	ASTM D5185m		7	7	<1
Potassium	ppm	ASTM D5185m	>20	7	2	5
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	2.5	2.3	▲ 3.6
Nitration	Abs/cm	*ASTM D7624	>20	9.9	8.5	9.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	27.8	21.8	24.9
FLUID DEGRADATION method limit/base current history1 history2						history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	22.2	14.2	15.7
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.8	7.8	6.9
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OIL ANALYSIS REPORT

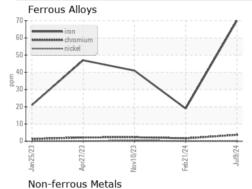




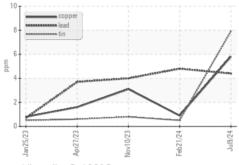


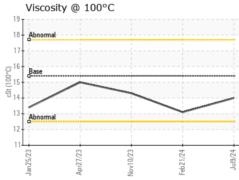
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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

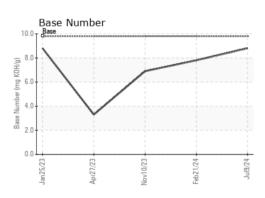
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	15.4	14.0	13.1	14.3	















Certificate 12367

Laboratory Sample No. Lab Number : 06237285

: SBP0007762 Unique Number : 11126119 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 15 Jul 2024

Tested : 17 Jul 2024 Diagnosed : 17 Jul 2024 - Don Baldridge

SCHMIDT TRANSPORTATION - BARTO

108 E Bay Road Plattsmouth, NE US 68048

Contact: Service Manager

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)

T:

F: