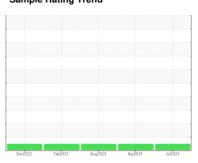


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **BLUE BIRD 112**

Diesel Engine

PETRO CANADA DURON HP 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

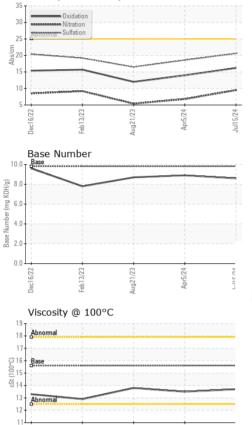
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

AL)		Dec2022	Feb 2023	Aug2023 Apr2024	Jui2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0905955	WC0905964	WC0792658
Sample Date		Client Info		15 Jul 2024	05 Apr 2024	21 Aug 2023
Machine Age	mls	Client Info		145108	139364	124193
Oil Age	mls	Client Info		0	5000	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	١	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	>100	27	16	8
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	<1	<1
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	0	<1	1
Aluminum	ppm	ASTM D5185m	>20	6	5	1
Lead	ppm	ASTM D5185m	>40	0	<1	0
Copper	ppm	ASTM D5185m	>330	<1	<1	<1
Tin	ppm	ASTM D5185m	>15	<1	<1	0
Vanadium	ppm	ASTM D5185m		0	<1	<1
Cadmium	ppm	ASTM D5185m		0	<1	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		4	2	27
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		55	61	74
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		880	977	1056
Calcium	ppm	ASTM D5185m		1036	1137	1316
Phosphorus	ppm	ASTM D5185m		1014	1070	1214
Zinc	ppm	ASTM D5185m		1212	1278	1393
Sulfur	ppm	ASTM D5185m		3348	3404	3874
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	5	6
Sodium	ppm	ASTM D5185m		2	2	4
Potassium	ppm	ASTM D5185m	>20	8	6	5
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1.1	0.5	0.1
Nitration	Abs/cm	*ASTM D7624	>20	9.5	6.8	5.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.6	18.6	16.5
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.2	14.0	12.0
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.6	8.9	8.7
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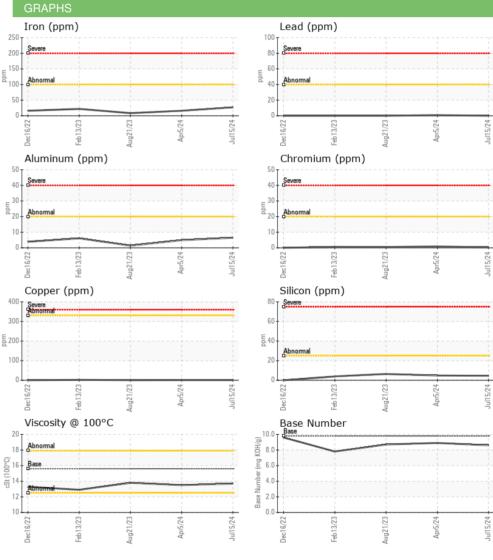
FT-IR (Direct Trend)

OIL ANALYSIS REPORT



VISUAL		method				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 PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.6	13.7	13.5	13.8
GRAPHS						

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cosity @	100°C			
normal				
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e				-
				-
normal		***************************************	-	-
				_
F-L 12 00	reb 13/23	Aug21/23	Apr5/24	111 E 79.4







Certificate 12367

Laboratory Sample No.

: WC0905955 Lab Number : 06239673 Unique Number : 11128507

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

: 17 Jul 2024 : 18 Jul 2024 Diagnosed : 18 Jul 2024 - Wes Davis

1603 SALEM CHURCH RD GOLDSBORO, NC US 27530

WAYNE CO SCHOOL BUS GARAGE

Contact: BRANDON BRIGGS brandonbriggs@wcps.org T:

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Test Package : MOB 1 (Additional Tests: TBN)

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

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Contact/Location: BRANDON BRIGGS - WAYGOL

F: