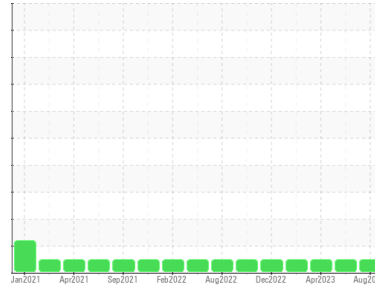




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
DOOSAN LCV6WKUB LP 917

Component
Diesel Engine

Fluid
PETRO CANADA DURON XL SYN BLEND 15W40 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination 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.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0837189	WC0790981	WC0797803
Sample Date	Client Info		10 Aug 2023	20 May 2023	10 Apr 2023
Machine Age	hrs	Client Info	10089	9472	8912
Oil Age	hrs	Client Info	617	512	819
Oil Changed	Client Info		Changed	Changed	Changed
Sample Status			NORMAL	NORMAL	NORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>3.0	<1.0	<1.0	<1.0
Glycol	WC Method		NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	11	13	43
Chromium	ppm	ASTM D5185m >20	2	4	<1
Nickel	ppm	ASTM D5185m >5	0	<1	3
Titanium	ppm	ASTM D5185m	0	0	1
Silver	ppm	ASTM D5185m >3	0	0	0
Aluminum	ppm	ASTM D5185m >20	2	3	3
Lead	ppm	ASTM D5185m >40	0	<1	0
Copper	ppm	ASTM D5185m >30	0	0	4
Tin	ppm	ASTM D5185m >15	0	<1	<1
Vanadium	ppm	ASTM D5185m	0	0	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 1	4	11	27
Barium	ppm	ASTM D5185m 1	0	0	0
Molybdenum	ppm	ASTM D5185m 60	61	61	68
Manganese	ppm	ASTM D5185m 1	0	<1	1
Magnesium	ppm	ASTM D5185m 1010	1020	969	435
Calcium	ppm	ASTM D5185m 1070	1156	1120	1812
Phosphorus	ppm	ASTM D5185m 1150	1101	1041	1051
Zinc	ppm	ASTM D5185m 1270	1408	1292	1283
Sulfur	ppm	ASTM D5185m 2060	4140	3715	4019

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	2	4	4
Sodium	ppm	ASTM D5185m	0	2	3
Potassium	ppm	ASTM D5185m >20	0	2	<1

INFRA-RED

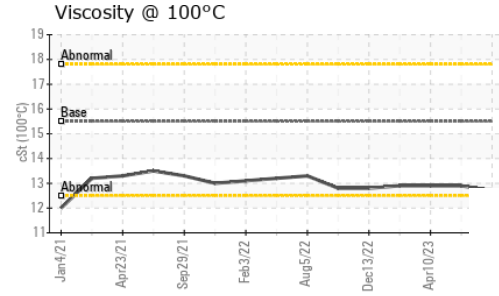
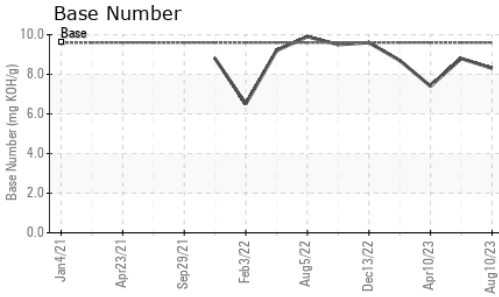
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	0.2	0.2	0.3
Nitration	Abs/cm	*ASTM D7624 >20	6.1	6.8	6.7
Sulfation	Abs/.1mm	*ASTM D7415 >30	17.9	19.3	18.1

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	14.1	15.6	16.2
Base Number (BN)	mg KOH/g	ASTM D2896 9.6	8.3	8.8	7.4



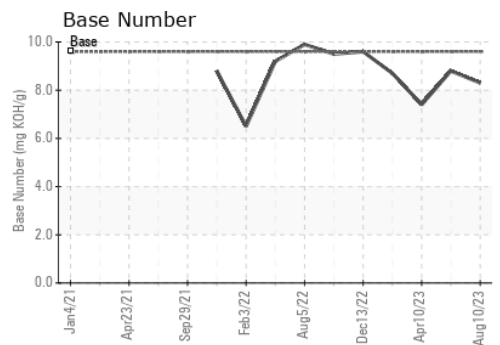
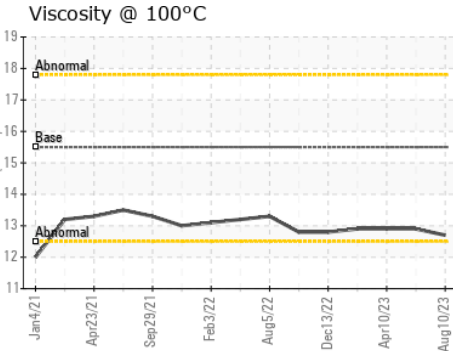
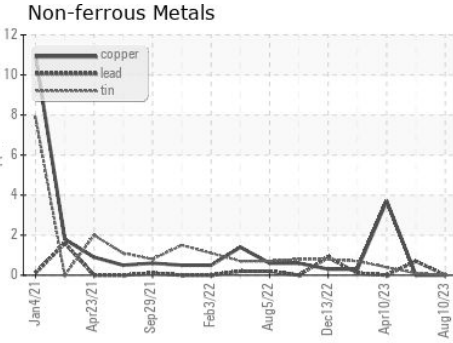
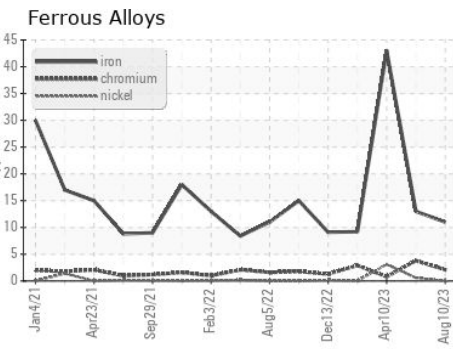
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D445	15.5	12.7	12.9	12.9

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0837189 **Received** : 15 Aug 2023
Lab Number : **05925275** **Diagnosed** : 16 Aug 2023
Unique Number : 10605222 **Diagnostician** : Wes Davis
Test Package : CONST (Additional Tests: TBN)

TRADER CONSTRUCTION CO.
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 NEW BERN, NC
 US 28563
 Contact: MIKE WYATT
 mw Wyatt@traderconstruction.com
 T: (252)633-1399
 F: (252)638-4871

Certificate L2367
 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)