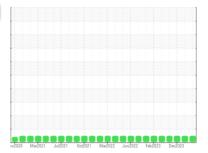


OIL ANALYSIS REPORT

Sample Rating Trend







CATERPILLAR D6 8178 (S/N KEW00465)

Diesel Engine

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

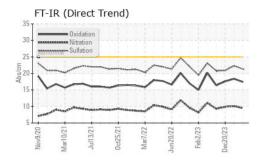
Fluid Condition

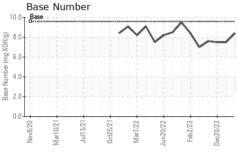
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

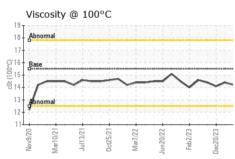
THE BEEND TOTTED	·					
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0888001	WC0837052	WC0879346
Sample Date		Client Info		09 Apr 2024	08 Feb 2024	20 Dec 2023
Machine Age	hrs	Client Info		12832	12421	11824
Oil Age	hrs	Client Info		411	597	499
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
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
ron	ppm	ASTM D5185m	>100	13	18	18
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	<1	2
Lead	ppm	ASTM D5185m	>40	0	<1	2
Copper	ppm	ASTM D5185m	>330	<1	4	1
Γin	ppm	ASTM D5185m	>15	0	0	0
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	8	8	5
Barium	ppm	ASTM D5185m	1	0	0	0
Molybdenum	ppm	ASTM D5185m	60	57	58	65
Manganese	ppm	ASTM D5185m	1	0	0	0
Magnesium	ppm	ASTM D5185m	1010	865	947	970
Calcium	ppm	ASTM D5185m	1070	1445	1301	1156
Phosphorus	ppm	ASTM D5185m	1150	1176	1054	951
Zinc	ppm	ASTM D5185m	1270	1327	1278	1270
Sulfur	ppm	ASTM D5185m	2060	3161	2878	3066
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	4	3
Sodium	ppm	ASTM D5185m		1	3	0
Potassium	ppm	ASTM D5185m	>20	2	0	1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1	1.3	1.2
Nitration	Abs/cm	*ASTM D7624	>20	9.5	10.1	9.9
Nilialion						
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.3	22.3	20.9
		*ASTM D7415 method	>30 limit/base	21.3 current	22.3 history1	
Sulfation						20.9 history2 17.6



OIL ANALYSIS REPORT



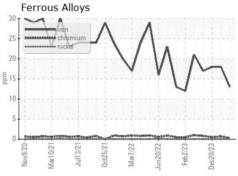


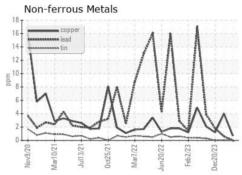


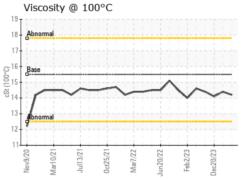
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

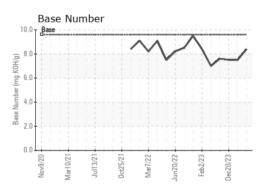
FLUID PROPER	TIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.5	14.2	14.4	14.1

GRAPHS













Certificate 12367

Laboratory Sample No. Lab Number : 06151793

: WC0888001 Unique Number : 10981871

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

Test Package : CONST (Additional Tests: TBN)

Received **Tested** Diagnosed

: 17 Apr 2024 : 18 Apr 2024

: 18 Apr 2024 - Wes Davis

US 28563 Contact: MIKE WYATT

mwyatt@traderconstruction.com T: (252)633-1399

TRADER CONSTRUCTION CO.

PO DRAWER 1578

NEW BERN, NC

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) F: (252)638-4871

Report Id: TRANEW [WUSCAR] 06151793 (Generated: 04/18/2024 18:28:10) Rev: 1

Contact/Location: MIKE WYATT - TRANEW