

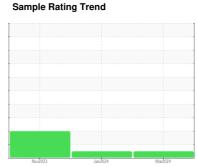
OIL ANALYSIS REPORT



CATERPILLAR 745D 13407 (S/N 3T606505)

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

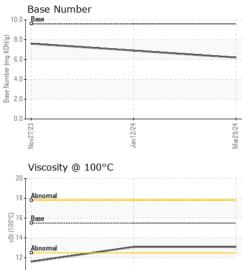
Fluid Condition

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

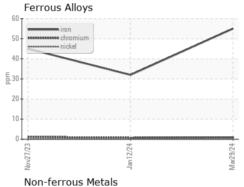
•		No	2023	Jan 2024 Mar 20	124	
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0913219	WC0887978	WC0863011
Sample Date		Client Info		29 Mar 2024	12 Jan 2024	27 Nov 2023
Machine Age	hrs	Client Info		2239	1221	573
Oil Age	hrs	Client Info		1018	628	573
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL
CONTAMINATION	1	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<u>2.2</u>
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	55	32	45
Chromium	ppm	ASTM D5185m	>20	1	<1	1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m	>2	0	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	3	3
Lead	ppm	ASTM D5185m	>40	4	3	3
Copper	ppm	ASTM D5185m	>330	48	267	<u> </u>
Tin	ppm	ASTM D5185m		2	2	3
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	1	<1	27
Barium	ppm	ASTM D5185m	1	0	3	3
Molybdenum	ppm	ASTM D5185m	60	60	60	58
Manganese	ppm	ASTM D5185m	1	1	<1	2
Magnesium	ppm	ASTM D5185m	1010	966	944	759
Calcium	ppm	ASTM D5185m	1070	1173	1232	1867
Phosphorus	ppm	ASTM D5185m	1150	987	965	1086
Zinc	ppm	ASTM D5185m	1270	1294	1245	1400
Sulfur	ppm	ASTM D5185m	2060	2780	2670	3801
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	5	18
Sodium	ppm	ASTM D5185m		2	0	3
Potassium	ppm	ASTM D5185m	>20	0	2	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.6	0.4	0.3
A 11.	Abs/cm	*ASTM D7624	>20	10.9	9.7	9.6
Nitration	/ 100/0111					
Nitration Sulfation	Abs/.1mm	*ASTM D7415	>30	22.7	21.1	23.0
	Abs/.1mm	*ASTM D7415 method	>30 limit/base	22.7 current	21.1 history1	23.0 history2
Sulfation	Abs/.1mm					

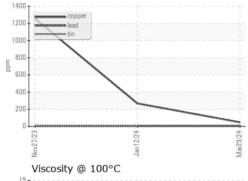


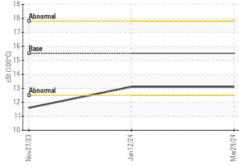
OIL ANALYSIS REPORT

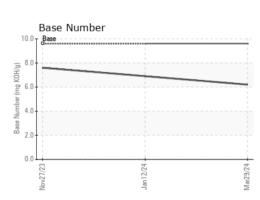


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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 PROPERT	TES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.5	13.1	13.1	11.6













Laboratory Sample No. Lab Number : 06137040 Unique Number : 10956505

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0913219

Received **Tested**

Diagnosed

: 03 Apr 2024 : 03 Apr 2024

: 03 Apr 2024 - Wes Davis

PO DRAWER 1578 NEW BERN, NC US 28563

TRADER CONSTRUCTION CO.

Contact: MIKE WYATT mwyatt@traderconstruction.com

T: (252)633-1399 F: (252)638-4871

Test Package : CONST (Additional Tests: TBN)

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)