

OIL ANALYSIS REPORT





Machine Id

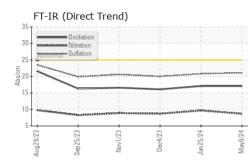
CATERPILLAR 745D 13397 (S/N 3T605921) Diesel Engine

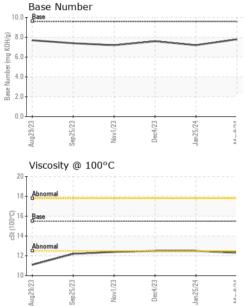
PETRO CANADA DURON XL SYN BLEND 15W40 (--- GAL)

DIAGNOSIS	SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		WC0913305	WC0888039	WC0879411
Resample at the next service interval to monitor.	Sample Date		Client Info		09 May 2024	25 Jan 2024	04 Dec 2023
Wear	Machine Age	hrs	Client Info		3238	2674	2054
All component wear rates are normal.	Oil Age	hrs	Client Info		564	620	479
Contamination	Oil Changed		Client Info		Changed	Changed	Changed
There is no indication of any contamination in the	Sample Status				NORMAL	NORMAL	NORMAL
oil.	CONTAMINATION	J	method	limit/base	current	history1	history2
Fluid Condition	Fuel		WC Method	>5	<1.0	<1.0	<1.0
The BN result indicates that there is suitable	Water		WC Method		NEG	NEG	NEG
alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Glycol		WC Method	20.2	NEG	NEG	NEG
	-			1			
	WEAR METALS		method	limit/base		history1	history2
	Iron	ppm	ASTM D5185m		27	23	22
	Chromium	ppm	ASTM D5185m		<1	<1	<1
	Nickel	ppm	ASTM D5185m		<1	0	<1
	Titanium	ppm	ASTM D5185m	>2	<1	0	<1
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>25	2	2	<1
	Lead	ppm	ASTM D5185m	>40	3	2	2
	Copper	ppm	ASTM D5185m	>330	30	6	14
	Tin	ppm	ASTM D5185m	>15	1	<1	<1
	Vanadium	ppm	ASTM D5185m		<1	0	0
	Cadmium	ppm	ASTM D5185m		<1	0	<1
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m	1	<1	2	2
	Barium	ppm	ASTM D5185m	1	<1	<1	3
	Molybdenum	ppm	ASTM D5185m	60	58	57	60
	Manganese	ppm	ASTM D5185m	1	<1	<1	<1
	Magnesium	ppm	ASTM D5185m	1010	889	914	930
	Calcium	ppm	ASTM D5185m	1070	1240	1093	1170
	Phosphorus	ppm	ASTM D5185m	1150	1200	1043	1016
	Zinc	ppm	ASTM D5185m	1270	1284	1243	1258
	Sulfur	ppm	ASTM D5185m	2060	3338	2852	3215
	CONTAMINANTS		method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>25	5	4	4
	Sodium	ppm	ASTM D5185m		<1	<1	0
	Potassium	ppm	ASTM D5185m	>20	2	0	1
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	*ASTM D7844	>3	0.4	0.4	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	8.7	9.7	8.7
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.1	20.8	20.0
	FLUID DEGRADA	TION	method	limit/base	current	history1	history2
	Oxidation	Abs/.1mm	*ASTM D7414	>25	17.1	17.1	16.1
			ASTM D2896		7.8	7.2	7.6
		ing toning	. COTHER DECOU	5.0		/	1.0



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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	TIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.5	12.3	12.5	12.5
GRAPHS						

RAPHS Ferrous Alloys 50 40 nicke 30 20 10 η. Nov1/23 -Dec4/23 ; Aug29/23 Mav9/24 en 25/23 an25/24 Non-ferrous Metals 700 600 500 ور ط 400 300 200

90

800

100 0

19

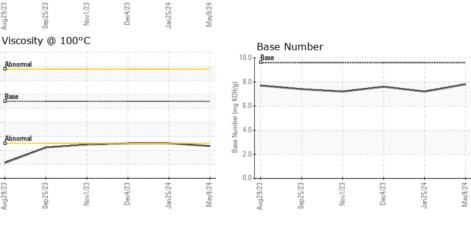
18 17

16 cSt (100°C)

> 12 1 10

> > Aug29/23

Aug29/23



TRADER CONSTRUCTION CO. Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : WC0913305 Received : 15 May 2024 PO DRAWER 1578 E Lab Number : 06179703 Tested : 15 May 2024 NEW BERN, NC Unique Number : 11031029 Diagnosed : 15 May 2024 - Wes Davis US 28563 Test Package : CONST (Additional Tests: TBN) Contact: MIKE WYATT Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. mwyatt@traderconstruction.com T: (252)633-1399 * - 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] 06179703 (Generated: 05/15/2024 21:45:01) Rev: 1

Contact/Location: MIKE WYATT - TRANEW

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