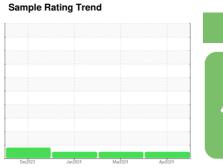


## **OIL ANALYSIS REPORT**





DIAGNOSIS

Contamination

Fluid Condition

oil is suitable for further service.

Wear

oil

Recommendation

Machine Id

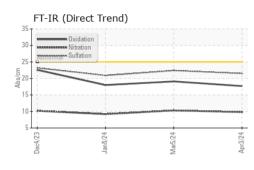
CATERPILLAR 745D 13405 (S/N 3T606094) **Diesel Engine** Fluid

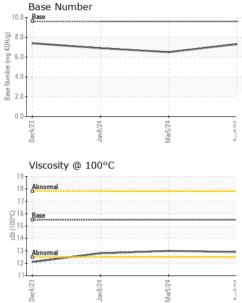
PETRO CANADA DURON XL SYN BLEND 15W40 (--- GAL)

## SAMPLE INFORMATION method WC0913169 WC0831271 WC0887974 Sample Number **Client Info** Resample at the next service interval to monitor. Sample Date Client Info 03 Apr 2024 05 Mar 2024 08 Jan 2024 2240 Machine Age hrs **Client Info** 1778 1176 All component wear rates are normal. Oil Age hrs Client Info 462 602 463 Oil Changed Client Info Changed Changed Changed NORMAL Sample Status NORMAL NORMAL There is no indication of any contamination in the CONTAMINATION Fuel >5 <1.0 WC Method <1.0 <1.0 The BN result indicates that there is suitable Water WC Method >0.2 NEG NEG NEG alkalinity remaining in the oil. The condition of the Glycol WC Method NEG NEG NEG WEAR METALS >100 32 18 Iron ppm ASTM D5185m 28 Chromium ASTM D5185m >20 ppm 1 1 <1 0 0 Nickel >2 2 ppm ASTM D5185m Titanium ppm ASTM D5185m >2 0 0 0 Silver ASTM D5185m >2 0 0 <1 ppm 2 Aluminum ASTM D5185m >25 <1 2 ppm 2 2 Lead ASTM D5185m >40 2 ppm ASTM D5185m >330 11 40 132 Copper ppm 0 Tin ppm ASTM D5185m >15 <1 <1 Vanadium ppm ASTM D5185m 0 0 <1 Cadmium 0 0 ASTM D5185m 0 ppm Boron mag ASTM D5185m 1 3 3 0 Barium ASTM D5185m 1 0 0 0 ppm 59 56 Molybdenum ASTM D5185m 60 56 ppm ASTM D5185m 1 Manganese ppm <1 <1 <1 Magnesium ASTM D5185m 1010 980 918 976 ppm Calcium ppm ASTM D5185m 1070 1338 1158 1165 Phosphorus ASTM D5185m 1150 1161 972 1051 ppm Zinc ppm ASTM D5185m 1270 1390 1160 1375 Sulfur ASTM D5185m 2060 3687 2837 2839 ppm 4 4 4 Silicon ASTM D5185m >25 ppm 2 Sodium ASTM D5185m 2 0 ppm Potassium ASTM D5185m >20 <1 0 0 ppm **INFRA-RED** % 0.5 0.4 0.3 Soot % \*ASTM D7844 >3 Nitration Abs/cm \*ASTM D7624 >20 9.8 10.3 9.2 Sulfation \*ASTM D7415 >30 21.5 22.4 20.9 Abs/.1mm FLUID DEGRADATION \*ASTM D7414 >25 17.7 19.1 18.0 Oxidation Abs/.1mm Base Number (BN) mg KOH/g ASTM D2896 9.6 6.5 7.3 6.9



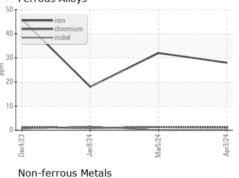
## **OIL ANALYSIS REPORT**

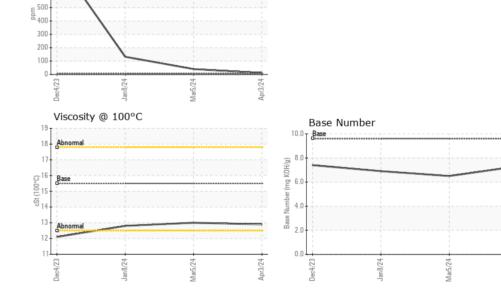




VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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	IES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.5	12.9	13.0	12.8
GRAPHS						

Ferrous Alloys





TRADER CONSTRUCTION CO. Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0913169 Sample No. Received : 12 Apr 2024 PO DRAWER 1578 Lab Number : 06147044 Tested : 15 Apr 2024 NEW BERN, NC Unique Number : 10977122 Diagnosed : 15 Apr 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. F: (252)638-4871

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

Report Id: TRANEW [WUSCAR] 06147044 (Generated: 04/15/2024 18:58:47) Rev: 1

Contact/Location: MIKE WYATT - TRANEW

Page 2 of 2

pr3/24