

OIL ANALYSIS REPORT

Sample Rating Trend



OKLAHOMA/102/EG - EXCAVATOR 20.203L [OKLAHOMA^102^EG - EXCAVATOR] Diesel Engine Fluid MOBIL DELVAC 1300 SUPER15W40 (5 GAL)

SAMPLE INFORMATION method WC0945637 WC0807975 WC0800844 Sample Number **Client Info** Sample Date Client Info 09 Jul 2024 10 Aug 2023 12 Apr 2023 3007 Machine Age hrs **Client Info** 2461 2114 Oil Age hrs Client Info 546 347 377 Oil Changed Changed **Client Info** Changed Changed NORMAL Sample Status NORMAL NORMAL CONTAMINATION Fuel >5 WC Method <1.0 <1.0 <1.0 Water WC Method >0.2 NEG NEG NEG Glycol WC Method NEG NEG NEG WEAR METALS >100 7 5 5 Iron ppm ASTM D5185m ASTM D5185m >20 0 0 Chromium ppm <1 0 0 Nickel >2 0 ppm ASTM D5185m Titanium ppm ASTM D5185m >2 0 0 0 Silver ASTM D5185m >2 0 0 0 ppm Aluminum ASTM D5185m >25 1 ppm 1 1 0 Lead ASTM D5185m >40 0 0 ppm ASTM D5185m >330 3 9 Copper ppm <1 0 0 Tin ppm ASTM D5185m >15 <1 Vanadium ppm ASTM D5185m 0 0 0 Cadmium 0 0 0 ASTM D5185m ppm Boron mag ASTM D5185m 0 49 50 48 Barium ASTM D5185m 0 0 2 ppm 1 Molybdenum ASTM D5185m 0 40 41 39 ppm ASTM D5185m Manganese ppm <1 <1 <1 Magnesium ASTM D5185m 0 508 537 491 ppm Calcium ppm ASTM D5185m 1786 1754 1547 Phosphorus ASTM D5185m 790 768 727 ppm 914 Zinc ppm ASTM D5185m 894 875 Sulfur ASTM D5185m 2881 2932 2567 ppm CONTAMINANTS 4 3 Silicon ASTM D5185m >25 4 ppm 2 Sodium ASTM D5185m 3 2 ppm Potassium ASTM D5185m >20 0 4 0 ppm **INFRA-RED** 0.1 % 0.1 0.1 Soot % *ASTM D7844 >3 Nitration Abs/cm *ASTM D7624 >20 6.9 6.7 6.4 Sulfation *ASTM D7415 >30 21.6 21.7 20.0 Abs/.1mm FLUID DEGRADATION *ASTM D7414 >25 20.2 20.2 Oxidation Abs/.1mm 19.2 Base Number (BN) mg KOH/g ASTM D2896 9.4 9.9 10.3 8.8

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Area

Wear

All component wear rates are normal.

Contamination

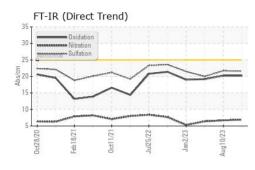
There is no indication of any contamination in the oil.

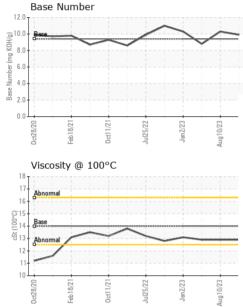
Fluid Condition

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



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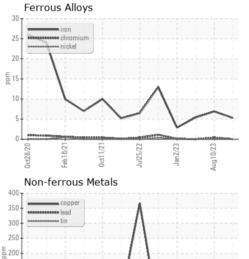


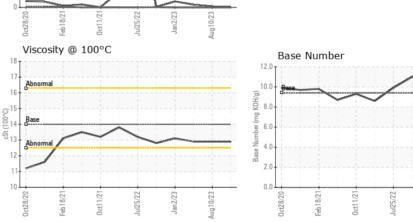


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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	IES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	14	12.9	12.9	12.9

GRAPHS

150 100 50





Jan2/23 Aug10/23 SHERWOOD CONSTRUCTION CO INC Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : WC0945637 Received 3219 WEST MAY ST : 15 Jul 2024 Lab Number : 06235714 Tested : 16 Jul 2024 WICHITA, KS Unique Number : 11124548 Diagnosed : 16 Jul 2024 - Wes Davis US 67213 Test Package : CONST (Additional Tests: TBN) Contact: DOUG KING To discuss this sample report, contact Customer Service at 1-800-237-1369. doug.king@sherwood.net * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (316)617-3161 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: x:

Certificate 12367 To discuss * - Denotes

Report Id: SHEWIC [WUSCAR] 06235714 (Generated: 07/16/2024 10:28:38) Rev: 1

Submitted By: RUSTY RILEY

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