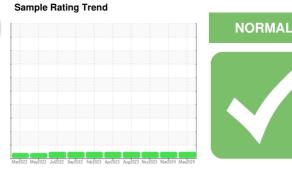


OIL ANALYSIS REPORT





46.104L [COLORADO^443] **Diesel Engine** Fluid

MOBIL DELVAC 1300 SUPER15W40 (4 GAL)

SAMPLE INFORMATION method WC0928734 WC0883978 WC0859686 Sample Number **Client Info** Sample Date Client Info 23 May 2024 27 Mar 2024 03 Nov 2023 2594 Machine Age hrs Client Info 2344 2036 Oil Age hrs Client Info 0 0 0 Oil Changed Client Info Changed 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 23 10 9 Iron ppm ASTM D5185m ASTM D5185m >20 0 0 Chromium ppm 1 0 Nickel >2 <1 0 ppm ASTM D5185m Titanium ppm ASTM D5185m >2 <1 0 0 Silver ASTM D5185m >2 0 0 0 ppm 9 Aluminum ASTM D5185m >25 13 5 ppm 0 Lead ASTM D5185m >40 <1 ppm <1 ASTM D5185m >330 2 0 Copper ppm <1 0 Tin ppm ASTM D5185m >15 <1 <1 Vanadium ppm ASTM D5185m 0 0 0 Cadmium 0 0 0 ASTM D5185m ppm Boron mag ASTM D5185m 0 37 55 56 Barium ASTM D5185m 0 0 0 0 ppm 39 Molybdenum ASTM D5185m 0 39 41 ppm ASTM D5185m Manganese ppm <1 <1 <1 Magnesium ASTM D5185m 0 488 538 516 ppm Calcium ppm ASTM D5185m 1710 1757 1694 Phosphorus ASTM D5185m 747 796 739 ppm 961 911 Zinc ppm ASTM D5185m 856 Sulfur ASTM D5185m 2600 3066 2484 ppm CONTAMINANTS 9 5 5 Silicon ASTM D5185m >25 ppm 3 2 Sodium ASTM D5185m 5 ppm Potassium ASTM D5185m >20 2 1 0 ppm **INFRA-RED** 0.4 % 0.3 0.2 Soot % *ASTM D7844 >3 Nitration Abs/cm *ASTM D7624 >20 8.4 6.8 6.1 Sulfation *ASTM D7415 >30 21.7 21.7 21.8 Abs/.1mm FLUID DEGRADATION *ASTM D7414 >25 21.0 20.3 Oxidation Abs/.1mm 20.1 Base Number (BN) mg KOH/g ASTM D2896 9.4 9.0 9.9 9.2

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Area

Wear

All component wear rates are normal.

Contamination

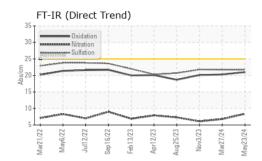
There is no indication of any contamination in the oil

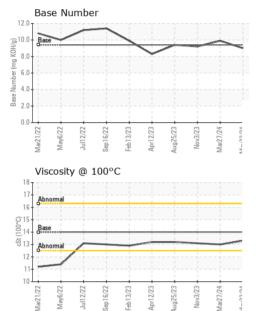
Fluid Condition

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



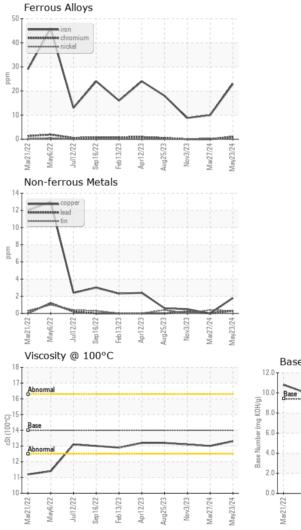
OIL ANALYSIS REPORT

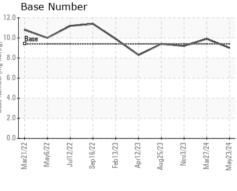




VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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	TIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	14	13.3	13.0	13.1

GRAPHS





Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 SHERWOOD CONSTRUCTION CO INC Sample No. : WC0928734 Received : 30 May 2024 3219 WEST MAY ST Lab Number : 06196135 Tested : 31 May 2024 WICHITA, KS Unique Number : 11058258 Diagnosed : 31 May 2024 - Wes Davis US 67213 Test Package : CONST (Additional Tests: TBN) Contact: DOUG KING Certificate 12367 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:

Submitted By: BRANDEN JAQUIAS

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