WEAR CONTAMINATION **FLUID CONDITION** **ATTENTION ABNORMAL NORMAL**

OIL ANALYSIS REPORT

Machine Id

75Component

Rear Diesel Engine

| RECOMMENDATION We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. | Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|--|------------------|------------|----------------------------|-----------|--------------|--------------|--------------|
| | Sample Number | | Client Info | | TR0001365 | TR0001244 | TR0519110 |
| | Sample Date | | Client Info | | 08 Apr 2024 | 14 Nov 2023 | 02 Feb 202 |
| | Machine Age | hrs | Client Info | | 20519 | 19490 | 17779 |
| | Oil Age | hrs | Client Info | | 1029 | 665 | 0 |
| | Filter Age | hrs | Client Info | | 1029 | 665 | 0 |
| | Oil Changed | | Client Info | | Not Changd | Changed | Not Chang |
| | Filter Changed | | Client Info | | Changed | Changed | Not Chan |
| | Sample Status | | | | ABNORMAL | ABNORMAL | NORMA |
| WEAR | Iron | ppm | ASTM D5185m | >100 | 40 | 62 | 12 |
| VEAIT | Chromium | ppm | ASTM D5185m | | 2 | 2 | <1 |
| All component wear rates are normal. | Nickel | ppm | ASTM D5185m | | 1 | 1 | 0 |
| | Titanium | ppm | ASTM D5185m | | <1 | <1 | <1 |
| | Silver | ppm | ASTM D5185m | | 0 | <1 | <1 |
| | Aluminum | ppm | ASTM D5185m | | <u>4</u> | 6 | 2 |
| | Lead | ppm | ASTM D5185m | | 2 | 1 | 1 |
| | Copper | ppm | ASTM D5185m | >330 | 46 | <u>425</u> | 6 |
| | Tin | ppm | ASTM D5185m | >15 | 2 | 2 | <1 |
| | Vanadium | ppm | ASTM D5185m | | <1 | <1 | 0 |
| | White Metal | scalar | *Visual | NONE | NONE | NONE | NON |
| | Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NON |
| OONT A MINIA TION | O | | | | | 40 | |
| CONTAMINATION | Silicon | ppm | ASTM D5185m | | <u>^</u> 27 | <u>42</u> | 5 |
| Elemental levels of silicon (Si) and aluminum (Al) indicate aluminasilicate (coarse dirt) ingress. | Potassium | ppm | ASTM D5185m | | 4 | 1.0 | <1 |
| | Fuel Water | | WC Method | | <1.0 NEG | <1.0 NEG | <1.0 NEG |
| | Glycol | | WC Method WC Method | >0.2 | NEG | 0.0 | NEG |
| | Soot % | % | *ASTM D7844 | ~ 3 | 0.5 | 0.0 | 0.3 |
| | Nitration | Abs/cm | *ASTM D7624 | >20 | 13.5 | 10.5 | 13.8 |
| | Sulfation | Abs/.1mm | *ASTM D7024 | | 24.1 | 19.2 | 24.2 |
| | Silt | scalar | *Visual | NONE | NONE | NONE | NONI |
| | Debris | scalar | *Visual | NONE | NONE | NONE | NONE |
| | Sand/Dirt | scalar | *Visual | NONE | NONE | NONE | NONI |
| | Appearance | scalar | *Visual | NORML | NORML | NORML | NORM |
| | Odor | scalar | *Visual | NORML | NORML | NORML | NORN |
| | Emulsified Water | | *Visual | >0.2 | NEG | NEG | NEG |
| LUID CONDITION | 0-4: | | AOTA DESO | | 40 | 4.4 | |
| FLUID CONDITION | Sodium | ppm | ASTM D5185m | | 10 | 14 | 6 |
| The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants. | Boron | ppm | ASTM D5185m | | 0 | 2 | 5 |
| | Barium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| | Molybdenum | ppm | ASTM D5185m | | 156 | 117 1 | 152 |
| | Magnesium | ppm | ASTM D5185m ASTM D5185m | | <1 10 | | <1 27 |
| | Magnesium | ppm | | | 19 5021 | 19 | |
| | Calcium | ppm | ASTM D5185m ASTM D5185m | | 5031 | 3961 901 | 4850 1006 |
| | Phosphorus | ppm | | | 1069 | | |
| | Zinc | nnm | VCLW DE15E~ | | 1210 | 1000 | 11/11 |
| | Zinc Sulfur | ppm ppm | ASTM D5185m ASTM D5185m | | 1218 5240 | 1028 4107 | 1141 3998 |

Oxidation

Visc @ 100°C cSt

14.20

12.6

14.8

17.2

14.5

14.01

Abs/.1mm *ASTM D7414 >25

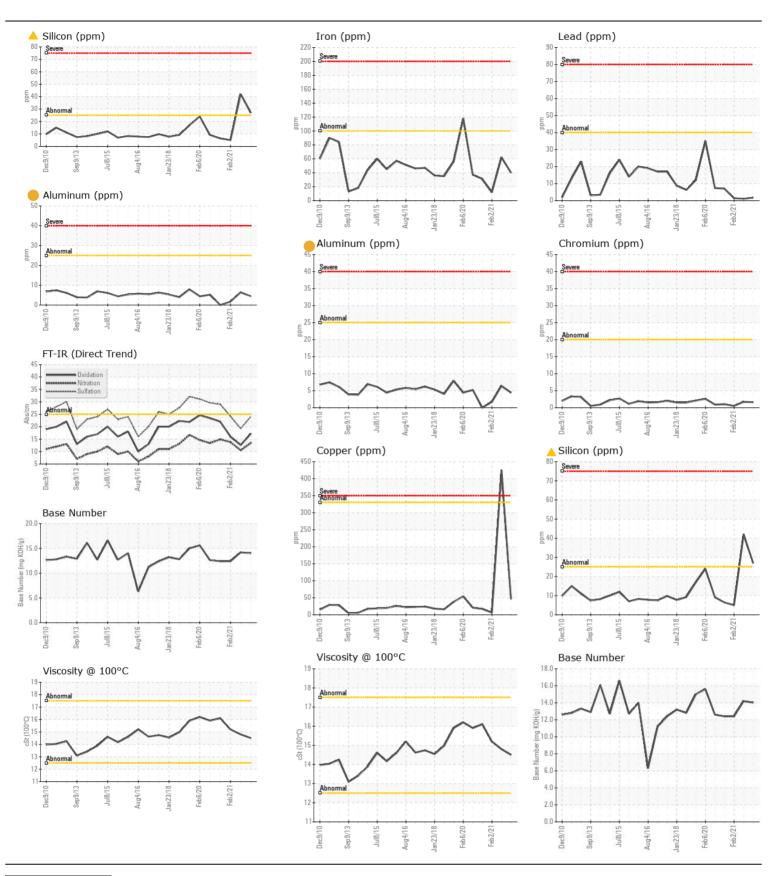
ASTM D445

Base Number (BN) mg KOH/g ASTM D2896

16

15.2

12.4





Report Id: SASBUL [WUSCAR] 06148168 (Generated: 04/16/2024 17:51:49) Rev: 1

Laboratory Sample No. Lab Number

Unique Number: 10978246

: TR0001365 : 06148168

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested**

: 12 Apr 2024 : 15 Apr 2024 Diagnosed

: 16 Apr 2024 - Sean Felton

S S CONCRETE MATERIALS LLC

P.O. BOX 23283 BULLHEAD CITY, AZ US 86439

Contact: MARK OPHEIM

Test Package : MOB 2 Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-827-0711.

* - 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)

Submitted By: SNS INVENTORY

F: (928)754-1991

T: