OIL ANALYSIS REPORT		WEA CONTAMINATIO FLUID CONDITIO			VEAR TION TION	NORMAL ATTENTION NORMAL	
Contracting Machine Id 5515 5515 Component Diesel Engine Fluid MOBIL 15W40 (5 GAL)							
RECOMMENDATION No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Test Sample Number Sample Date Machine Age Oil Age Filter Age Oil Changed Filter Changed	UOM hrs hrs hrs	Method Client Info Client Info Client Info Client Info Client Info Client Info	Limit/Abn	Current WC0947824 29 May 2024 6548 536 536 536 Changed Changed	History1 WC0862007 04 Oct 2023 6012 490 490 Changed Changed	History2 WC0637583 03 Nov 2021 4639 532 532 Changed Changed
WEAR All component wear rates are normal.	Sample Status Iron Chromium Nickel Titanium Silver Aluminum Lead Copper Tita	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>100 >20 >2 >2 >2 >2 >2 >25 >40 >330	ATTENTION 15 <1 0 0 0 14 0 <1 4	ABNOHMAL 20 1 0 0 0 18 0 2 2	11 ENIION 14 1 <1 <1 0 12 <1 1 0
CONTAMINATION	Vanadium White Metal Yellow Metal Silicon Potassium	ppm scalar scalar ppm ppm	ASTM D5185m *Visual *Visual ASTM D5185m ASTM D5185m WC Mothed	>13 NONE NONE >25 >20	0 NONE NONE 6 0	0 NONE NONE 5 <1	0 NONE NONE 5 4
	Water Glycol Soot % Nitration Sulfation Particles >4µm Particles >14µm	% Abs/cm Abs/.1mm	WC Method WC Method *ASTM D7844 *ASTM D7624 *ASTM D7647 ASTM D7647 ASTM D7647	>3 >0.2 >3 >20 >30 >20000 >5000 >640	 NEG NEG 0.3 7.7 20.9 10335 5630 958 	 ×1.0 NEG 0.2 7.8 21.5 20157 10981 1869 	<1.0 NEG 0.3 7.7 21.6 8802 4795 815
	Particles >21µm Particles >38µm Particles >71µm Oil Cleanliness Silt Debris Sand/Dirt Appearance Odor	scalar scalar scalar scalar scalar	ASTM D/64/ ASTM D7647 ASTM D7647 ISO 4406 (c) *Visual *Visual *Visual *Visual *Visual	>160 >40 >10 >21/19/16 NONE NONE NORML NORML	323 50 5 21/20/17 NONE NONE NORE NORML	 629 97 10 22/21/18 NONE NONE NORE NORML NORML 	42 4 20/19/17 NONE NONE NORML NORML
FLUID CONDITION The BN result indicates that there is suitable alkalinity remaining in the	Emulsified Water Sodium Boron Barium	scalar ppm ppm	*Visual ASTM D5185m ASTM D5185m ASTM D5185m	>0.2 >118	NEG 2 39 0	NEG 4 32 0	NEG 3 29 0
oil. The condition of the oil is suitable for further service.	Molybdenum Manganese Magnesium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m		47 <1 517	48 <1 559	38 <1 567

Magnesium ppm ASTM D5185m

ppm

ppm

Base Number (BN) mg KOH/g ASTM D2896

ASTM D5185m

ASTM D5185m

Abs/.1mm *ASTM D7414 >25

ASTM D445

ppm ASTM D5185m

ppm ASTM D5185m

Calcium

Zinc

Sulfur

Oxidation

Phosphorus

Visc @ 100°C cSt

1639

773

916

2762

19.7

9.1

12.9

1875

725

875

19.2

9

13.3

3434

1674

799

2610

976

20.5

9.3

12.8



 Unique Number
 : 11058657
 Diagnosed
 : 03 Jun 2024 - Don Baldridge
 US 27509

 Certificate L2367
 Test Package
 : CONST (Additional Tests: PrtCount, TBN)
 Contact: Leigh Dennis

 To discuss this sample report, contact Customer Service at 1-800-237-1369.
 rdennis@thesunrockgroup.com

 * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.
 T: (919)575-4505

 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)
 F: (919)575-0162

Contact/Location: Leigh Dennis - CARBUTNC Page 2 of 2