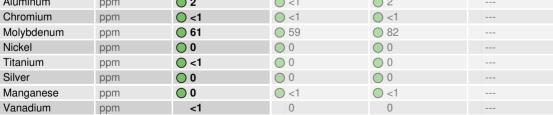
CONSTRUCTION EQUIPMENT

MS20 - Diesel Engine

Sample No: LH0244797

Oil Type: DIESEL ENGINE OIL SAE 40

Sample Information Sample Number LH0244797 LH0244825 LH0244841 Sample Date 29 Jun 2024 09 Mar 2024 14 Dec 2023 Machine Hours 4907 4046 3388 **Oil Hours** 0 500 0 Oil Changed Changed N/A Changed Sample Status NORMAL NORMAL NORMAL **Oil Condition** Visc @ 100°C cSt 0 12.6 0 13.1 0 13.4 Base Number (BN) mg KOH/g 07.7 07.6 6.0 Oxidation (PA) % 63 59 **Contamination** Water % NEG NEG NEG % 0.5 0.3 0.7 Soot % Nitration (PA) % 72 63 78 Sulfation (PA) % 56 53 61 % Glycol NEG NEG NEG Fuel % <1.0 <1.0 <1.0 03 06 Silicon 3 ppm Sodium $\bigcirc 2$ ppm ○ <1 $\bigcirc 7$ Potassium ppm 2 $\bigcirc 0$ 2 0 ear Metals Iron ppm 0 16 0 14 0 27 Copper 01 2 $\bigcirc 2$ ppm \bigcirc Lead 0 $\bigcirc 0$ ppm $\bigcirc 0$ Tin 0 $\bigcirc 0$ ppm $\bigcirc <$ Aluminum 2 ○ <1 02 ppm Chromium ○ <1 ○ <1 0 <1 ppm 0 82



Add	itives				
Calcium	ppm	0 1164	0 1167	2300	
Magnesium	ppm	958	0 895	508	
Zinc	ppm	0 1273	0 1242	1615	
Phosphorus	ppm	0 1052	0 1016	0 1149	
Barium	ppm	0	0	0	
Boron	ppm	0 5	8	56	



 Depot:
 OSCLAF

 Unique No:
 11123533

 Signed:
 Wes Davis

 Report Date:
 15 Jul 2024

Contact/Location: JAYSON FRAZIER - OSCLAF

Report Id: OSCLAF [WUSCAR] 06234699 (Generated: 07/15/2024 08:50:13) Rev: 1

OSCAR WINSKI CO. INC

2407 N. 9TH STREET LAFAYETTE, IN US 47904 Contact: JAYSON FRAZIER frazierj@oscarwinski.com T: (765)376-1230 F: x:

Diagnosis

Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



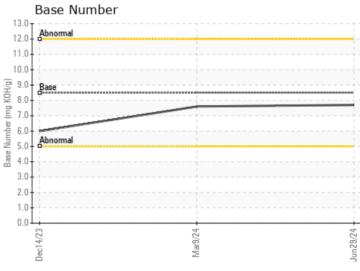
CONSTRUCTION EQUIPMENT





Graphs

Ferrous Alloys 30 iron m chromium 25 nickel 20 ۲5 a 10 5 0-Mar9/24 Dec14/23 Jun29/24 Non-ferrous Metals 10 copper 9 m lead tin 8 6 mdd 5 3 2 0 Mar9/24 Dec14/23 Jun29/24 Viscosity @ 100°C 18 17.5 17 Abnormal 16.5 15.5 (0-001) 155 11 155 16 Bas 14 13.5 13 Abnormal 12.5 12 11.5 Mar9/24 -Jun29/24 Dec14/23



Report Id: OSCLAF [WUSCAR] 06234699 (Generated: 07/15/2024 08:50:15) Rev: 1

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