

## CONSTRUCTION EQUIPMENT X59526 TADANO GR550XL-3 542269 - DIESEL ENGINE



Sample No: VCP438284
Oil Type: {unknown}
Job No: X59526

SAMPLE INFORMATION  Sample Number  Sample Date  Machine Hours  Oil Hours  Oil Changed  Sample Status  OIL CONDITION  Visc @ 100°C cSt  Base Number (BN) mg KOH/ Oxidation (PA) %  CONTAMINATION  Water %  Soot % %  Nitration (PA) %  Sulfation (PA) %  Sulfation (PA) %  Silicon ppm  Sodium ppm  Potassium ppm  Copper ppm  Lead ppm  Tin ppm  Aluminum ppm  Chromium ppm  Chromium ppm	VCP438284 25 Apr 2024 0 0 Changed ABNORMAL		
Sample Number Sample Date Machine Hours Oil Hours Oil Changed Sample Status  OIL CONDITION  Visc @ 100°C cSt Base Number (BN) mg KOH/ Oxidation (PA) %  CONTAMINATION  Water % Soot % % Nitration (PA) % Sulfation (PA) % Sulfation (PA) % Silicon ppm Sodium ppm Potassium ppm  WEAR METALS  Iron ppm Copper ppm Lead ppm Tin ppm Aluminum ppm	VCP438284 25 Apr 2024 0 0 Changed ABNORMAL		
Sample Date Machine Hours Oil Hours Oil Changed Sample Status  OIL CONDITION  Visc @ 100°C	25 Apr 2024 0 0 Changed ABNORMAL 13.3 74		
Machine Hours Oil Hours Oil Changed Sample Status  OIL CONDITION  Visc @ 100°C	0 0 Changed ABNORMAL 13.3 14.8 74		
Oil Hours Oil Changed Sample Status  OIL CONDITION  Visc @ 100°C	Changed ABNORMAL  13.3  14.8 74		
Oil Changed Sample Status  Oil CONDITION  Visc @ 100°C	Changed ABNORMAL  13.3  14.8 74		
OIL CONDITION  Visc @ 100°C	### ### ##############################	 	
OIL CONDITION  Visc @ 100°C	13.3 /g 14.8 74	 	
OIL CONDITION  Visc @ 100°C	/g ■4.8 74 NEG	 	
OIL CONDITION  Visc @ 100°C	/g ■4.8 74 NEG	 	
Base Number (BN) mg KOH/ Oxidation (PA) %  CONTAMINATION  Water % Soot % % Nitration (PA) % Sulfation (PA) % Glycol % Fuel % Silicon ppm Sodium ppm Potassium ppm  WEAR METALS  Iron ppm Copper ppm Lead ppm Tin ppm Aluminum ppm	/g ■4.8 74 NEG	 	
Contamination  Water % Soot % % Nitration (PA) % Sulfation (PA) % Glycol % Fuel % Silicon ppm Sodium ppm Potassium ppm  WEAR METALS  Iron ppm Copper ppm Lead ppm Tin ppm Aluminum ppm	/g ■4.8 74 NEG	 	
CONTAMINATION  Water % Soot % % Nitration (PA) % Sulfation (PA) % Glycol % Fuel % Silicon ppm Sodium ppm Potassium ppm  WEAR METALS  Iron ppm Copper ppm Lead ppm Tin ppm Aluminum ppm	74 NEG		
CONTAMINATION  Water % Soot % %  Nitration (PA) %  Sulfation (PA) %  Glycol %  Fuel %  Silicon ppm  Sodium ppm  Potassium ppm  WEAR METALS  Iron ppm  Copper ppm  Lead ppm  Tin ppm  Aluminum ppm	NEG		
CONTAMINATION  Water %  Soot % %  Nitration (PA) %  Sulfation (PA) %  Glycol %  Fuel %  Silicon ppm  Sodium ppm  Potassium ppm  WEAR METALS  Iron ppm  Copper ppm  Lead ppm  Tin ppm  Aluminum ppm			
Water % Soot % % Nitration (PA) % Sulfation (PA) % Glycol % Fuel % Silicon ppm Sodium ppm Potassium ppm  WEAR METALS Iron ppm Copper ppm Lead ppm Tin ppm Aluminum ppm			
Soot % % Nitration (PA) % Sulfation (PA) % Glycol % Fuel % Silicon ppm Sodium ppm Potassium ppm Copper ppm Lead ppm Tin ppm Aluminum ppm			
Nitration (PA) % Sulfation (PA) % Glycol % Fuel % Silicon ppm Sodium ppm Potassium ppm Copper ppm Lead ppm Tin ppm Aluminum ppm	■0.1		
Sulfation (PA) % Glycol % Fuel % Silicon ppm Sodium ppm Potassium ppm  WEAR METALS Iron ppm Copper ppm Lead ppm Tin ppm Aluminum ppm			
Glycol % Fuel % Silicon ppm Sodium ppm Potassium ppm WEAR METALS Iron ppm Copper ppm Lead ppm Tin ppm Aluminum ppm	79	 	
Fuel % Silicon ppm Sodium ppm Potassium ppm WEAR METALS Iron ppm Copper ppm Lead ppm Tin ppm Aluminum ppm	61	 	
Silicon ppm Sodium ppm Potassium ppm WEAR METALS Iron ppm Copper ppm Lead ppm Tin ppm Aluminum ppm	NEG	 	
WEAR METALS  Iron ppm Copper ppm Lead ppm Tin ppm Aluminum ppm	<1.0	 	
WEAR METALS  Iron ppm Copper ppm Lead ppm Tin ppm Aluminum ppm	<u> </u>	 	
WEAR METALS  Iron ppm Copper ppm Lead ppm Tin ppm Aluminum ppm	<b>4</b>	 	
WEAR METALS  Iron ppm Copper ppm Lead ppm Tin ppm Aluminum ppm	<b>■3</b>	 	
WEAR METALS  Iron ppm Copper ppm Lead ppm Tin ppm Aluminum ppm			
Iron ppm Copper ppm Lead ppm Tin ppm Aluminum ppm			
Copper ppm Lead ppm Tin ppm Aluminum ppm	·		
Lead ppm Tin ppm Aluminum ppm	■26	 	
Tin ppm Aluminum ppm	<b>211</b>	 	
Aluminum ppm	■2	 	
	<b>□</b> <1	 	
Chromium ppm	<b>9</b>	 	
	<b>1</b>	 	
Molybdenum ppm	<b>60</b>	 	
Nickel ppm	<b>■</b> 0	 	
Titanium ppm	<1	 	
Silver ppm	<b>■</b> 0	 	
Manganese ppm	_	 	
Vanadium ppm	6	 	
	6 <1		
ADDITIVES			



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## Diagnosis

The oil change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. Elemental level of silicon (Si) above normal indicating ingress of seal material. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

Depot:SCOSAIUnique No:11003240Signed:Sean FeltonReport Date:01 May 2024

Contact/Location: DANA FOSHEE - SCOSAI

ppm

ppm

ppm

ppm

ppm

ppm

**1883** 

**375** 

**1189** 

**934** 

■8

**59** 

Calcium

Zinc

Barium

Boron

Magnesium

Phosphorus



## **CONSTRUCTION EQUIPMENT**





