WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL

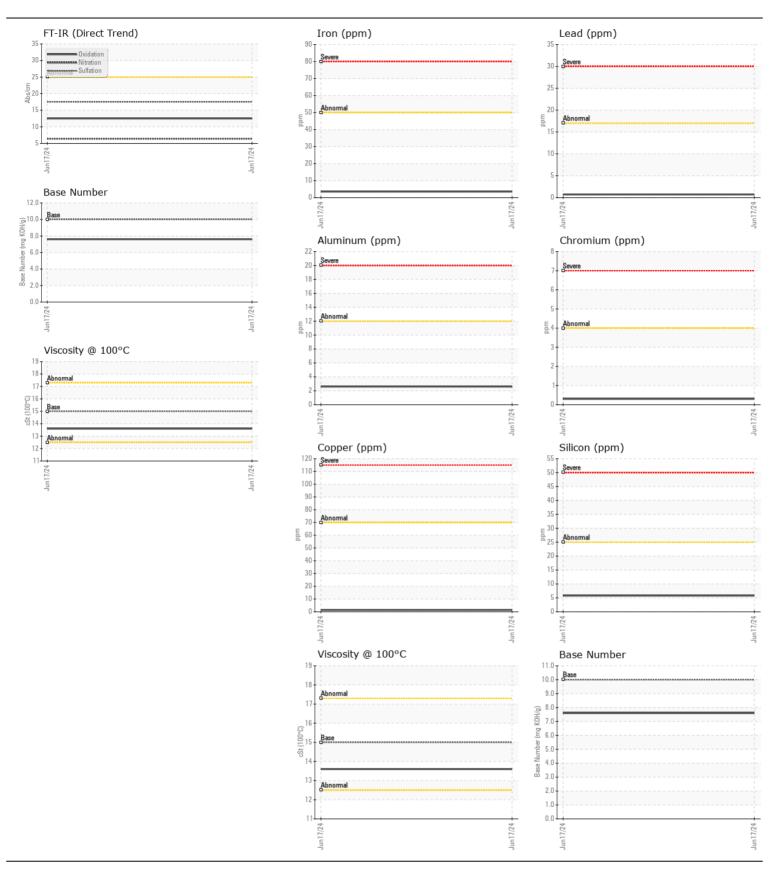
JON PAGEL [DANIEL/503122]

CUMMINS F170202221

Genset

VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3 (1 GAL)

Toet	HOM	Method	Limit/Ahn	Current	History1	History2
	JOIVI		LIIIII/AUII		,	mistory2
	hrs					
_						
-						
•	1110			-		
-						
_				_		
Iron	ppm	ASTM D5185m	>50	4		
Chromium	ppm	ASTM D5185m	>4	<1		
Nickel	ppm	ASTM D5185m	>2	<1		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m	>5	<1		
Aluminum	ppm			3		
Lead	ppm			<1		
Copper	ppm			1		
Tin			>15	<1		
	ppm					
	scalar					
Yellow Metal	scalar	*Visual	NONE	NONE		
Silicon	nnm	ASTM D5185m	>25	6		
	ррпп			_		
			70.1			
	%					
			>20			
Debris						
Sand/Dirt		*Visual		NONE		
Appearance	scalar	*Visual		NORML		
Odor	scalar	*Visual	NORML	NORML		
Emulsified Water	scalar	*Visual	>0.1	NEG		
	ppm		0.5			
•	ppm					
_						
-						
•						
Zinc	ppm	ASTM D5185m		770		
0 1/			40.70	2724		
Sulfur	ppm	ASTM D5185m		2724		
Sulfur Oxidation Base Number (BN)	Abs/.1mm	*ASTM D5185M *ASTM D7414 ASTM D2896	>25	12.5 7.6		
	Chromium Nickel Titanium Silver Aluminum Lead Copper Tin Vanadium White Metal Yellow Metal Yellow Metal Silicon Potassium Fuel Water Glycol Soot % Nitration Sulfation Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	Sample Number Sample Date Machine Age hrs Oil Age hrs Filter Age hrs Oil Changed Filter Changed Sample Status Iron ppm Chromium ppm Nickel ppm Titanium ppm Silver ppm Aluminum ppm Lead ppm Copper ppm Tin ppm Vanadium ppm White Metal scalar Yellow Metal scalar Yellow Metal scalar Silicon ppm Fuel Water Glycol Soot % % Nitration Abs/cm Sulfation Abs/.1mm Silt scalar Debris scalar Sand/Dirt scalar Appearance scalar Codor scalar Emulsified Water scalar Sodium ppm Boron ppm Barium ppm Molybdenum ppm Manganese ppm Magnesium calcium ppm Calcium ppm Phosphorus	Sample Number Sample Date Machine Age Oil Age hrs Client Info Clie	Sample Number Sample Date Client Info Machine Age hrs Client Info Oil Age hrs Client Info Filter Age Oil Changed Filter Changed Sample Status Iron Chromium Ppm ASTM D5185m Silver Ppm ASTM D5185m None Vanadium Ppm ASTM D5185m White Metal Scalar Visual NONE Vellow Metal Scalar Visual NONE Valuation Ppm ASTM D5185m Vanadium Ppm ASTM D5185m Vone Vellow Metal Scalar Visual None Silicon Ppm ASTM D5185m Vone Vone Vone Vone Vone Vone Vone Vone	Sample Number Client Info VPA058886 Sample Date Client Info 17 Jun 2024 Machine Age hrs Client Info 230 Oil Age hrs Client Info 0 Filter Age hrs Client Info 0 Oil Changed Client Info Changed Filter Changed Client Info Changed Sample Status Client Info Changed Iron ppm ASTM D5185m >50 4 Chromium ppm ASTM D5185m >4 <1	Sample Number Sample Date Client Info 17 Jun 2024





Certificate L2367

Laboratory Sample No.

: VPA058886 Lab Number : 06219553 Unique Number : 11097750

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

Diagnosed Test Package : MOB 1 (Additional Tests: TBN)

: 25 Jun 2024 : 26 Jun 2024 : 26 Jun 2024 - Don Baldridge

4300 11th Ave. NW

SEATTLE, WA US 98107 Contact: WILLOW YANARELLA

Endor Marine LLC - Coastal Marine - 152124

To discuss this sample report, contact Customer Service at 1-800-237-1369. service@coastalmarineengine.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (206)784-3703 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (206)784-8823