OIL ANALYSIS REPORT

CUMMINS 74213213 - PORT DIESEL ENGINE **KEANE H15461**

Sample No: VPA052271

Oil Type: SHELL ROTELLA T 15W40

Commente Niccoste en		VPA052271		
Sample Number Sample Date		02 Apr 2024	VPA022003 16 Nov 2018	
Machine Hours		356	78	
Oil Hours		356	78	
Oil Changed		Changed	Changed	
Sample Status		NORMAL	NORMAL	
Sample Status		NORMAL	NORMAL	_
OIL CONDITION				
Visc @ 100°C	cSt	14.3	14.37	
Base Number (BN)	mg KOH/g	8.4		
Oxidation (PA)	%	66	69	
CONTAMINATION				
Water	%	NEG	NEG	
Soot %	%	0.3	0.6	
Nitration (PA)	%	59	70	
Sulfation (PA)	%	58	58	
Glycol	%	NEG	NEG	
Fuel	%	<1.0	<1.0	
Silicon	ppm	5	25	
Sodium	ppm	4	4	
Potassium	ppm	8	4	
WEAR METALS				
Iron	ppm	1 1	29	
Copper	ppm	35	55	
Lead	ppm	1	2	
Tin	ppm	1	0	
Aluminum	ppm	2	9	
Chromium	ppm	1	1	
Molybdenum	ppm	6	54	
Nickel	ppm	2	2	
Titanium	ppm	 <1	 <1	
Silver	ppm		1	
Manganese	ppm	 <1	2	
Vanadium	ppm	<1	0	
ADDITIVES				
Calcium	ppm	2153	1616	
Magnesium	ppm	20	615	
Zinc	ppm	1162	1201	
Phosphorus	ppm	996	1019	
Barium	ppm	 <1	7	
Boron	ppm	169	62	

Diagnosis

Τ· F:

> Resample at the next service interval to monitor.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 acceptable for the time in service.

VP154879

10967640

Don Baldridge

11 Apr 2024

Depot:

Signed:

Unique No:

Report Date:





Walstrom Marine - 767948

501 Bay Street HARBOR SPRINGS, MI

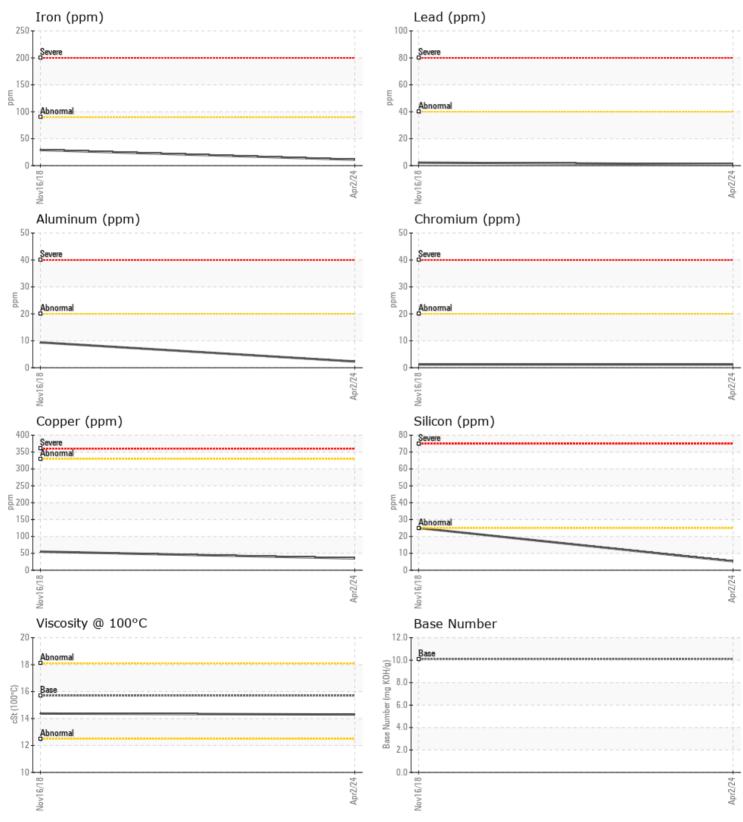
Contact: MARK LEWIS mlewis@walstrom.com

US 49740

OIL ANALYSIS REPORT



GRAPHS



Report Id: VP154879 [WUSCAR] 06142832 (Generated: 04/11/2024 19:30:20) Rev: 1

Contact/Location: MARK LEWIS - VP154879