OIL ANALYSIS REPORT

PETER FACKLER ALAN VOLVO PENTA 2204160652 - STARBOARD DIESEL ENGINE

Sample No: VPA041014

Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

Sample Number		VPA041014	VPA032864				
Sample Date		20 Nov 2023	25 Oct 2021			Precision Ma	rine Center Llo
Machine Hours		1773	1725			290 Drake Ave	9
Oil Hours		48	68			NEW ROCHEL	le, ny
Oil Changed		Changed	Changed			US 10805	
Sample Status		NORMAL	NORMAL			Contact: PREC	IS MARINE
			HORIN (E	_	_		IONMARINECEI
OIL CONDITION						T: F:	
Visc @ 100°C	cSt	13.5	13.4			— г.	
Base Number (BN)	mg KOH/g	10.2				D' '	
Oxidation (PA)	%	57	60			Diagnosis	
CONTAMINATION							the next service I component v
Contrainmention							here is no indi
Water	%	NEG	NEG			any contamin	nation in the oi
Soot %	%	0.1	0.1				es that there is
Nitration (PA)	%	45	49				aining in the o
Sulfation (PA)	%	52	54				the oil is suitab
Glycol	%	NEG	NEG			further servic	e.
Fuel	%	<1.0	< 1.0				
Silicon	ppm	9	7				
Sodium	ppm	 <1	 <1				
Potassium	ppm	 <1	 < 1				
WEAR METALS							
ron	ppm	6	6				
Copper	ppm	2	4				
Lead	ppm	0	□ <1				
Tin	ppm	 <1	 <1				
Aluminum	ppm	 <1	<1				
Chromium	ppm	0	□ <1				
Molybdenum	ppm	60	66				
Nickel	ppm	0	 <1				
Titanium	ppm	0	0				
Silver	ppm	0	□ <1				
Manganese	ppm	■ <1	<1				
Vanadium	ppm	<1	<1				
ADDITIVES							
Calcium	ppm	1087	1152				
Magnesium	ppm	1020	1020				
Zinc	ppm	1366	1418				
Phosphorus	ppm	991	1114				
Barium	ppm	0	0				
Boron	ppm	4	8			Depot:	VP850387
						Unique No:	10755177
						Signed	Ionathan Hest

10805 ntact: PRECIS MARINE O@PRECISIONMARINECENTER.COM

agnosis

sample at the next service interval monitor.All component wear rates e normal. There is no indication of v contamination in the oil. The BN sult indicates that there is suitable alinity remaining in the oil. The ndition of the oil is suitable for ther service.

oot: VP850387 10755177 que No: Jonathan Hester Signed: Report Date: 27 Nov 2023

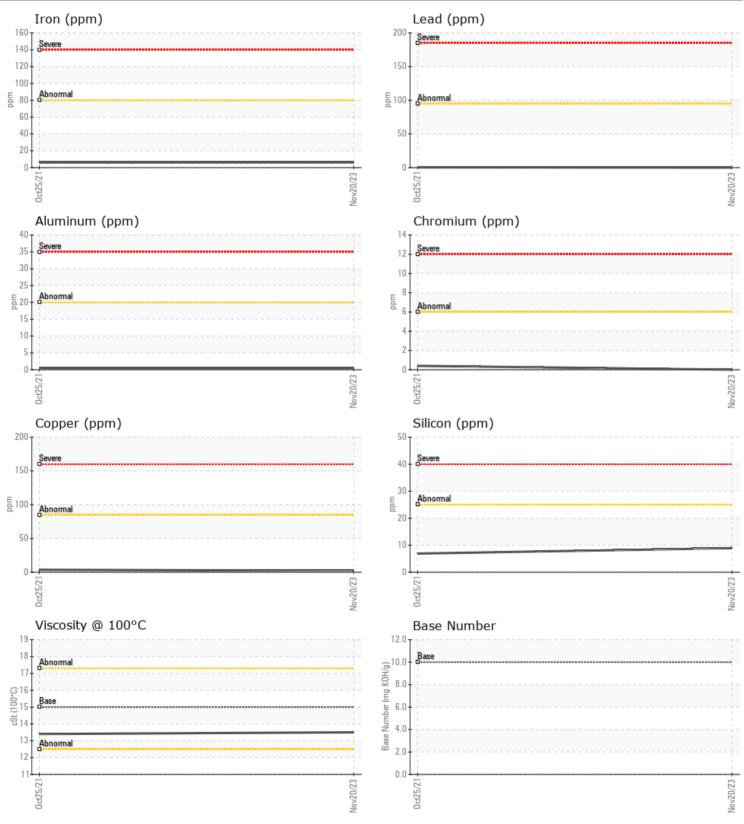
Contact/Location: PRECIS MARINE ? - VP850387



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GRAPHS



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