OIL ANALYSIS REPORT

MISS DODIE MISS DODIE VOLVO PENTA A 1080704 - STARBOARD DIESEL ENGINE

Sample No: VPA058272

Oil Type: CHEVRON DELO 400 MULTIGRADE 15W40

SAMPLE INFORMATION

SAMPLE INFURMA	IIUN			
Sample Number		VPA058272	 	
Sample Date		09 Nov 2023	 	
Machine Hours		1334	 	
Oil Hours		174	 	
Oil Changed		Changed	 	
Sample Status		NORMAL	 	
OIL CONDITION				
Visc @ 100°C	cSt	13.8	 	
Base Number (BN)		7.6		
. ,	mg KOH/g %	51	 	
Oxidation (PA)	70	51	 	
CONTAMINATION				
Water	%	NEG	 	
Soot %	%	0.3	 	
Nitration (PA)	%	68	 	
Sulfation (PA)	%	50	 	
Glycol	%	NEG	 	
Fuel	%	<1.0	 	
Silicon	ppm	□11	 	
Sodium	ppm	2	 	
Potassium	ppm	2	 	
WEAR METALS		_		
Iron	ppm	17	 	
Copper	ppm	8	 	
Lead	ppm	2	 	
Tin	ppm	2	 	
Aluminum	ppm	1 1	 	
Chromium	ppm	1	 	
Molybdenum	ppm	3	 	
Nickel	ppm	2	 	
Titanium	ppm	0	 	
Silver	ppm	0	 	
Manganese	ppm	□ <1	 	
Vanadium	ppm	0	 	
ADDITIVES				
Calcium	ppm	1 355	 	
Magnesium	ppm	769	 	
Zinc		864	 	
Phosphorus	ppm ppm	753	 	
Barium		0	 	
Boron	ppm	87	 	
DOIOII	ppm	01	 	

orth Harbor Diesel Inc 20 30Th Street NACORTES, WA S 98221 ontact: ROBBIN MURDOCK bbin@northharbordiesel.com (360)299-1904

iagnosis

esample at the next service interval o monitor.All component wear rates re normal. There is no indication of ny contamination in the oil. The BN esult indicates that there is suitable Ikalinity remaining in the oil. The ondition of the oil is suitable for urther service.

Contact/Location: ROBBIN MURDOCK - VP179089

Signed:

Report Date:

VP179089

10749746

Sean Felton

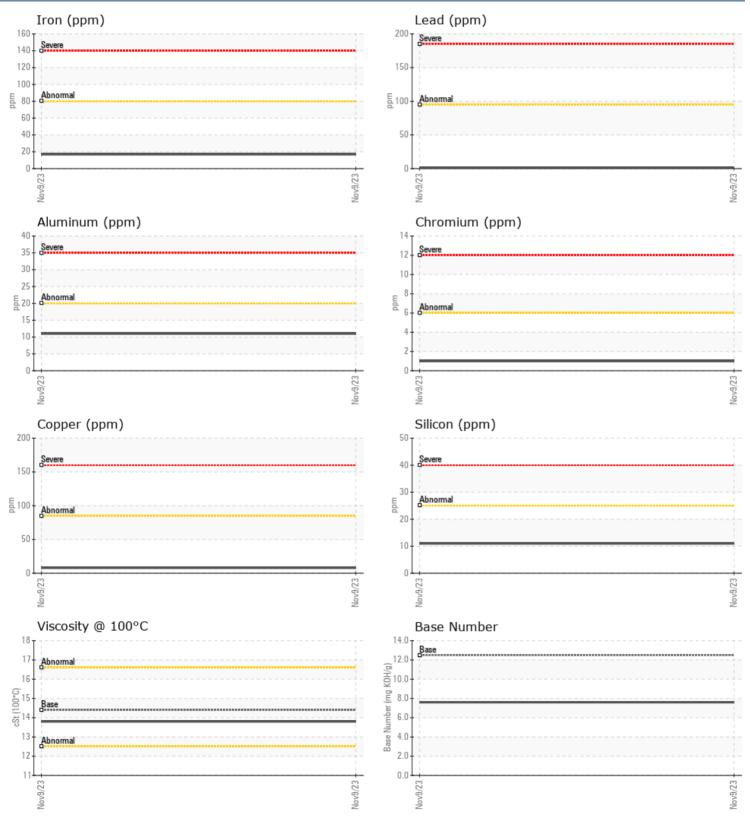
20 Nov 2023



OIL ANALYSIS REPORT



GRAPHS



Report Id: VP179089 [WUSCAR] 06010602 (Generated: 11/20/2023 15:36:23) Rev: 1

Contact/Location: ROBBIN MURDOCK - VP179089