OIL ANALYSIS REPORT

ZF 96-14780 - INBOARD - STARBOARD GEARBOX

Sample No: VPA051875

Oil Type: CONOCO Phillips T5X Heavy Duty 30W

SAMPLE INFORM	ATION			
Sample Number		VPA051875	 	
Sample Date		28 Aug 2023	 	
Machine Hours		190	 	
Oil Hours		190	 	
Oil Changed		Changed	 	
Sample Status		NORMAL	 	
OIL CONDITION				
Visc @ 40°C	cSt	86.9	 	
CONTAMINATION				
Silicon	ppm	4	 	
Sodium	ppm	0	 	
Potassium	ppm	2	 	
	PP111	<u> </u>	 	
WEAR METALS				
PQ		13	 	
Iron	ppm	16	 	
Copper	ppm	52	 	
Lead	ppm	73	 	
Tin	ppm	2	 	
Aluminum	ppm	4	 	
Chromium	ppm	 <1	 	
Molybdenum	ppm	 <1	 	
Nickel	ppm	0	 	
Titanium	ppm	<1	 	
Silver	ppm	0	 	
Manganese	ppm	 <1	 	
Vanadium	ppm	0	 	
ADDITIVES				
Calcium	ppm	3383	 	
Magnesium	ppm	90	 	
Zinc	ppm	1130	 	
Phosphorus	ppm	1033	 	
Barium	ppm	2	 	
Boron	ppm	5	 	



North Harbor Diesel Inc 720 30Th Street ANACORTES, WA US 98221 Contact: ROBBIN MURDOCK robbin@northharbordiesel.com T: (360)299-1904

Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.Metal levels are typical for a new component breaking in. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

 Depot:
 VP179089

 Unique No:
 10634465

 Signed:
 Don Baldridge

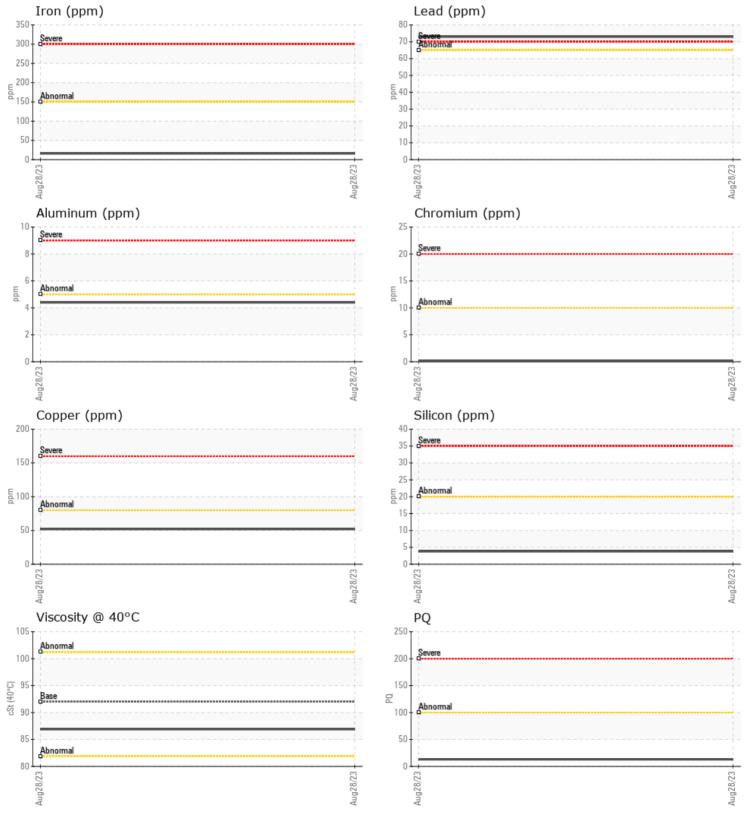
 Report Date:
 08 Sep 2023

Contact/Location: ROBBIN MURDOCK - VP179089

OIL ANALYSIS REPORT



GRAPHS



Report Id: VP179089 [WUSCAR] 05943853 (Generated: 09/08/2023 14:20:39) Rev: 2

Contact/Location: ROBBIN MURDOCK - VP179089