OIL ANALYSIS REPORT

RAVEN 502618 NORTHERN LIGHTS 6732-60369 - GENSET

Sample No: VPA058487

Oil Type: JOHN DEERE ENGINE OIL PLUS 50 II 10W30

Sample Number		VPA058487	VPA027030	 	
Sample Date		02 Apr 2024	16 Feb 2023	 	
Machine Hours		128	67	 	
Dil Hours		60	67	 	
Dil Changed		Changed	Changed	 	
ample Status		NORMAL	NORMAL	 	
OIL CONDITION					
isc @ 100°C	cSt	9.7	9.7	 	
ase Number (BN)	mg KOH/g	10.2	8.3	 	
xidation (PA)	%	57	28	 	
CONTAMINATION					
CONTAMINATION					
Vater	%	NEG	NEG	 	
oot %	%	0.1	0.1	 	
itration (PA)	%	54	41	 	
ulfation (PA)	%	53	38	 	
lycol	%	NEG	NEG	 	
uel	%	<1.0	< 1.0	 	
licon	ppm	10	13	 	
odium	ppm	4	4	 	
otassium	ppm	2	4	 	
WEAR METALS					
on	ppm	21	30	 	
opper		10	21	 	
ead	ppm	4	8	 	
in	ppm	■4 ■<1	□ <1	 	
luminum	ppm	_	_		
hromium	ppm	1 0	9	 	
	ppm	1	2	 	
lolybdenum	ppm	220	50	 	
ickel	ppm	■ <1	0	 	
tanium	ppm	<1	<1	 	
lver	ppm	0	0	 	
anganese	ppm	■ <1	3	 	
anadium	ppm	<1	0	 	
ADDITIVES					
alcium	ppm	1555	1648	 	
lagnesium	ppm	802	286	 	
inc	ppm	1165	1106	 	
hosphorus	ppm	938	852	 	
	1.18.1.1				
arium	maa	3	□ <1	 	
-	ppm ppm	3	□ <1	 	

North Harbor Diesel Inc

720 30Th Street ANACORTES, WA US 98221 Contact: ED MCFARLIN ed@northharbordiesel.com Т٠ F:

Diagnosis

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.

Contact/Location: ED MCFARLIN - VP179089

Signed:

Report Date:

VP179089

10970492

Don Baldridge

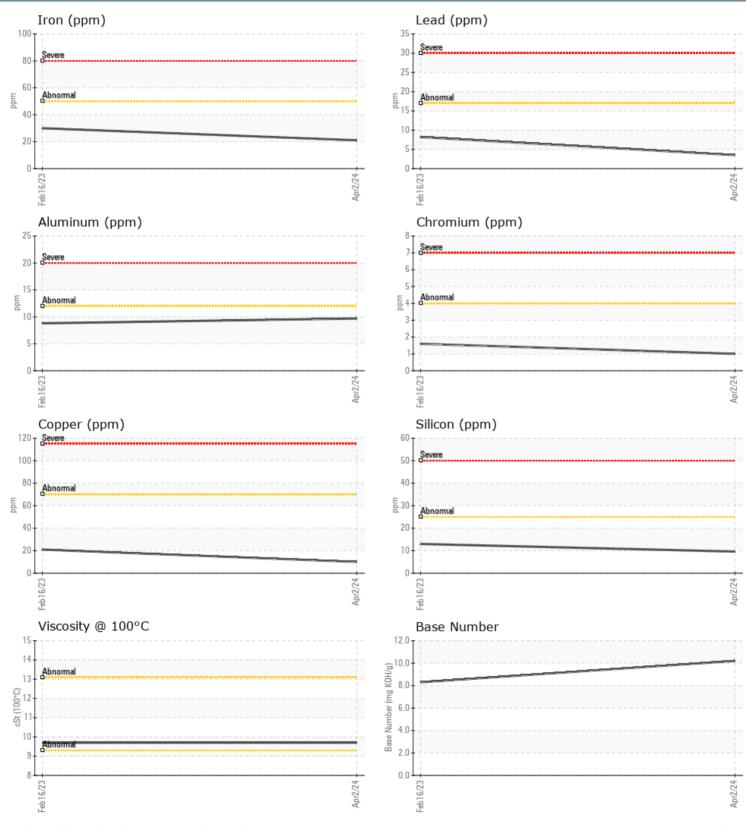
14 Apr 2024



OIL ANALYSIS REPORT



GRAPHS



Report Id: VP179089 [WUSCAR] 06145684 (Generated: 04/14/2024 12:43:11) Rev: 1

Contact/Location: ED MCFARLIN - VP179089